

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name:	Val-Sol Machine Cleaner
Supplier:	ValCool, LLC 5230 Brittmoore Rd Houston, TX 77041
Telephone:	(800) 244-9004
Fax:	(888) 695-6449
Email:	support@valcool.com
In case of Emergency:	CHEMTREC 800-424-9300
Product Description	Foaming degreaser/cleaner

SECTION 2: HAZARD IDENTIFICATION

GHS Classification

Skin Irritation – Category 3
Aerosol – Category 3
Eye Irritation – Category 2B

GHS Label

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictogram



GHS07

Signal word Warning

Hazard Statement H229 – Pressurized container. May burst if heated.
H316 – Causes mild skin irritation.
H320 – Causes eye irritation.

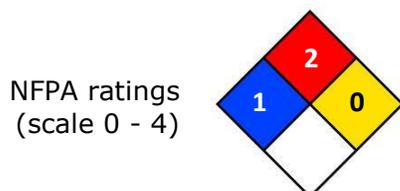
Precautionary statements

Prevention P101 – If medical advice is needed, have product container or label on hand.
P102 – Keep out of reach of children.
P103 – Read label before use.
P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P251 – Do not pierce or burn, even after use.

Response P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332 + P313 – If skin irritation occurs: Get medical advice/attention.
 310 – Immediately call a POISON CENTER or doctor/physician.

Disposal/Storage P4010 – Protect from sunlight.
 P412 – Do not expose to temperatures exceeding 50°C/122°F.
 P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.

Classification System



Health = 1
 Fire = 2
 Reactivity = 0

HMIS-ratings
(scale 0 - 4)

Health	1
Fire	2
Reactivity	0
Personal Protection	B

Health = 1
 Fire = 2
 Reactivity = 0
 Personal Protection = B

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture

Description: Mixture of the substances listed below with nonhazardous additions.

Components/Ingredients	CAS No.	%
Water	7732-18-5	55%-98%
Tetrapotassium Pyrophosphate	7320-34-5	1%-3%
Butane	106-97-8	1%-2%
Ethylene Glycol Monobutyl Ether	111-76-2	1%-2%
Ethyl Alcohol	64-17-5	0.1%-2.5%

SECTION 4: FIRST AID MEASURES

Eye Contact

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.



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- Skin Contact** Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.
- Ingestion** Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position. Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.
- Inhalation** Remove source of exposure or move person to fresh air and keep comfortable for breathing. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor. Eliminate all ignition sources if safe to do so.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing agents Use water, fog, dry chemical, or carbon dioxide. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Aerosol cans may rupture when heated. Heated cans may burst. In fire, will decompose to carbon dioxide, carbon monoxide.

Special Fire Fighting Instructions

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Protective equipment

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear. Care should always be exercised in dust/mist areas.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure	Flammable/combustible material. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas. Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.
Recommended Equipment	Wear safety glasses and gloves.
Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.
Environmental Precautions	Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7: HANDLING AND STORAGE

Handling	<p>General For industrial and institutional use only. For use by trained personnel only. Keep away from children. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored.</p>
Ventilation Requirements	Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source

Storage

Conditions for safe storage, including any incompatibilities

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard. Store at temperatures below 120°F.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters

Components with limit values that require monitoring at the workplace

Butane 106-97-8
NIOSH TWA: 800 ppm (1900 mg/m³)
ACGIH TWA: 1000 ppm

Ethyl Alcohol 64-17-5
OSHA TWA: 1000 ppm (1900 mg/m³)
Tables: 1
NIOSH TWA: 1000 ppm (1900 mg/m³)
ACGIH STEL: 1000 ppm

Ethylene Glycol Monobutyl Ether 111-76-2
OSHA TWA: 50 ppm (240 mg/m³)
Tables: 1
Skin Designation: 1
NIOSH TWA: 5 ppm (24 mg/m³)
ACGIH TWA: 20 ppm (97 mg/m³)

Additional information: The lists that were valid during the creation were used as basis

Exposure controls

Personal protective equipment

Eye / Face Protection



Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Hand Protection



Protective Gloves

Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors. When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Density	8.34547 lb/gal
Density VOC	0.66761 lb/gal
% VOC	7.99970%
VOC Actual	0.66761 lb/gal
VOC Actual	80.00000 g/l
Appearance	N.A
Odor Threshold	N.A
Odor Description	N.A
pH	11.75
Water Solubility	Soluble
Flammability	Will not burn
Flash Point Symbol	N.A
Flash Point	N.A
Viscosity	N.A
Lower Explosion Level	1.8
Upper Explosion Level	9.5



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Melting Point	N.A
Vapor Density	Slower than ether
Freezing Point	N.A
Low Boiling Point	212°F
High Boiling Point	N.A
Decomposition Pt	0
Auto Ignition Temp	N.A
Evaporation Rate	Slower than ether

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid	High temperatures.
Incompatibility with other Materials	None known.
Hazardous Reactions/Polymerization	Will not occur.
Hazardous decomposition materials	In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Serious Eye Damage/Irritation	Overexposure will cause redness and burning sensation
Skin Corrosion/Irritation	Overexposure will cause defatting of skin.
Carcinogenicity	No data available
Germ Cell Mutagenicity	No data available
Reproductive Toxicity	No data available
Respiratory/Skin Sensitization	No data available
Specific Target Organ Toxicity	
Single Exposure	No data available
Repeated Exposure	No data available
Aspiration Hazard	No data available

Acute toxicity



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Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

ETHYL ALCOHOL 64-17-5

LC50 (mouse)	Approximately 21000 ppm (4-hour exposure); cited as 39 g/m ³ (4-hour exposure) (1, unconfirmed)
LC50 (oral, rat)	7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)
LC50 (oral, mouse)	3450 mg/kg (1, unconfirmed)
LC50 (oral, guinea pig)	5560 mg/kg (37)

ETHYLENE GLYCOL MONOBUTYL ETHER 111-76-2

LC50 (female rat)	450 ppm (4-hour exposure) (2)
LC50 (male rat)	486 ppm (4-hour exposure) (2)
LC50 (oral, male weanling rat)	3000 mg/kg (1)
LC50 (oral, 6-week old male rat)	2400 mg/kg (1)
LC50 (oral, yearling male rat)	560 mg/kg (1)
LC50 (oral, female rat)	530 mg/kg; 2500 mg/kg (1)LD50 (oral, male mouse): 1230 mg/kg (1)
LC50 (oral, rabbit)	320 mg/kg (1)
LC50 (dermal, male rabbit)	406 mg/kg (cited as 0.45 mL/kg) (1)

BUTANE 106-97-8

LC50 (mouse)	202000 ppm (481000 mg/m ³) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)
LC50 (rat)	276000 ppm (658000 mg/m ³) (4-hour exposure); cited as 658 mg/L (4- hour exposure) (9)

Potential Health Effects - Miscellaneous

ETHYL ALCOHOL 64-17-5 The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.

ETHYLENE GLYCOL MONOBUTYL ETHER 111-76-2 Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.



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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity No data available

Persistence and degradability No data available

Behavior in environmental systems

Bioaccumulative potential No data available

Mobility in soil No data available

Additional ecological information

Other adverse effects No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Uncleaned packaging

Recommendation Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Consumer commodity, ORM-D
IMDG Information: Consumer commodity, ORM-D
IATA Information: Consumer commodity, ORM-D

SECTION 15: REGULATORY INFORMATION

Components/Ingredients	CAS No.	% by Weight	Regulation List
Water	7732-18-5	55%-98%	TSCA



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Tetrapotassium Pyrophosphate	7320-34-5	1%-3%	SARA312, TSCA
Butane	106-97-8	1%-2%	SARA312, VOC, TSCA, ACGIH
Ethylene Glycol Monobutyl Ether	111-76-2	1%-2%	CERCLA, SARA312, SARA313, VOC, TSCA, ACGIH, OSHA
Ethyl Alcohol	64-17-5	0.1%-2.5%	SARA312, VOC, TSCA, ACGIH, OSHA

SECTION 16: OTHER INFORMATION

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Special Notes: * There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

Abbreviations and acronyms:

- ACGIH- American Conference of Governmental Industrial Hygienists
- ANSI- American National Standards Institute;
- Canadian TDG- Canadian Transportation of Dangerous Goods
- CAS- Chemical Abstract Service
- Chemtrec- Chemical Transportation Emergency Center (US)
- CHIP- Chemical Hazard Information and Packaging
- DSL- Domestic Substances List
- EC- Equivalent Concentration
- EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits
- EPCRA- Emergency Planning and Community Right-To-Know Act
- ESL- Effects screening levels
- HMIS- Hazardous Material Information Service
- LC- Lethal Concentration
- LD- Lethal Dose
- NFPA- National Fire Protection Association
- OEL- Occupational Exposure Limits
- OSHA- Occupational Safety and Health Administration, US Department of Labor
- PEL- Permissible Exposure Limit
- SARA (Title III)- Superfund Amendments and Reauthorization Act
- SARA 313- Superfund Amendments and Reauthorization Act, Section 313
- SCBA- Self-Contained Breathing Apparatus
- STEL- Short Term Exposure Limit
- TCEQ- Texas Commission on Environmental Quality
- TLV- Threshold Limit Value
- TSCA- Toxic Substances Control Act Public Law 94-469;
- TWA- Time Weighted Value
- US DOT- US Department of Transportation
- WHMIS- Workplace Hazardous Materials Information System.

HMIS:

Disclaimer: The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date issued. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use are beyond our control, we make



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