Name: VP 690
Revision Date: 2/26/2018 – R2

ValCool, LLC
5230 Brittmoore Rd
Houston, TX 77041

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name: **VP 690**

Supplier: ValCool, LLC
5230 Brittmoore Rd
Houston, TX77041

Telephone: (800) 244-9004
Fax: (888) 695-6449
Email: support@valcool.com

In case of Emergency: CHEMTREC
800-424-9300

Product Description Heavy-duty non-chlorinated general purpose fluid

SECTION 2: HAZARD IDENTIFICATION

GHS Classification

GHS07
Skin Sens. 1B - H317 - May cause an allergic skin reaction.

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-determining components of labeling
2,2',2''-nitrilotriethanol
Tolyltriazole sodium salt
TOFA DIPA Amide
3-Iodo-2-propynylbutylcarbamate

Hazard Statement May cause an allergic skin reaction.

Precautionary statements

Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves

Response
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.

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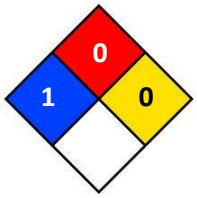
Disposal — Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification System

NFPA ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health	**1**
Fire	**0**
Reactivity	**0**

Health = 1
Fire = 0
Reactivity = 0

Other hazards — Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

Components/Ingredients	CAS No.	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	25-50%
TOFA DIPA Amide	38618-12-1	2.5-<10%
Borate Amine	26038-87-9	2.5-<10%
2,2',2''-nitrilotriethanol	102-71-6	2.5-<10%
2-methylpentane-2,4-diol	107-41-5	2.5-<10%
3-Iodo-2-propynylbutylcarbamate	55406-53-6	0.1-<1%
Tolyltriazole sodium salt	64665-57-2	0.1-<1%

SECTION 4: FIRST AID MEASURES

Eye Contact — Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact — Immediately rinse with water.

Ingestion — Do not induce vomiting. Seek medical attention immediately.

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Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Get medical attention immediately.

Information for doctor:

Most important symptoms/effects, acute and delayed No further relevant information available.

Description of necessary first aid measures / specific treatments No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing agents: Carbon Dioxide, Dry Chemical, Alcohol Foam or a light water spray

Special hazards arising from the substance or mixture: No further relevant information available

Special Fire Fighting Instructions Full protective clothing and approved self-contained breathing apparats if necessary for firefighting personnel.

Protective equipment No special measures required

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: HANDLING AND STORAGE

Handling

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
Information about protection against explosions and fires	Keep respiratory protective device available.

Storage

Requirements to be met by storerooms and receptacles	Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.
Information about storage in one common storage facility	Keep container tightly closed in a cool, well-ventilated place. Keep away from source of ignition.
Further information about storage conditions	Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Additional information about design of technical systems - No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace

2,2',2''-nitrilotriethanol	102-71-6
TLV	Long-term value: 5 mg/m³
2-methylpentane-2,4-diol	107-41-5
REL	Ceiling limit value: 125 mg/m³, 25 ppm
TLV	Ceiling limit value: 121 mg/m³, 25 ppm
Additional information:	The lists that were valid during the creation were used as basis

Exposure controls

Personal protective equipment

General protective and hygienic measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
Eye / Face Protection	 Tightly sealed goggles.

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Hand Protection	 **Protective Gloves** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. When contact is likely wear chemical resistant gloves and boots. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Respiratory Protection	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Liquid
Color	Light yellow
Odor	Mild
Specific Gravity at 20°C (68°F)	0.97 g/cm³ (8.095 lbs/gal)
Density	N.D.
Evaporation rate	Not determined.
Flash Point	> 200 °C (>392 °F) (estimated)
Auto-ignition Temperature	Does not ignite.
Danger of explosion	No Danger
Boiling Point / Range	< 100 °C (< 212 °F)
pH Value at 20 °C (68 °F)	9.6
Solubility in Water	Limited by viscosity
Viscosity	
Kinematic	Not determined
Organic solvents	3.0 %
VOC content	3.0 %

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(Neat): 150.2 g/L (Working Solution): 15 g/L

Other information No further relevant information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity No further relevant information available

Chemical Stability

Thermal decomposition Conditions to Avoid Stable under normal conditions.

Possibility of hazardous reactions No dangerous reactions known

Conditions to Avoid No further relevant information available

Incompatibility with other Materials Do not mix with oxidizers

Hazardous decomposition materials Carbon Dioxide and Carbon Monoxide and various unidentified organic hydrocarbons

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

LD/LC50 values that are relevant for classification:

3-Iodo-2-propynylbutylcarbamate		55406-53-6
Oral	LD50	1470 mg/kg (rat)
Dermal	LD50	1470 mg/kg (rat)
Inhalative	LC50/4 h	>6.89 mg/l (rat)

Primary irritant effect

Eye Contact	Product is classified as moderately irritating to the eyes.
Skin Contact	This product is not expected to be toxic in contact with the skin.
Sensitization	Sensitization possible through inhalation.

Additional toxicological information The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.

Carcinogenic categories

IARC (International Agency for Research on Cancer)	102-71-6	2,2',2''-nitrilotriethanol	3

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NTP (National Toxicology Program)	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity	No further relevant information available
Persistence and degradability	No further relevant information available

Behavior in environmental systems

Bioaccumulative potential	No further relevant information available
Mobility in soil	No further relevant information available

Additional ecological information

General notes	Not readily biodegradable. Does not hydrolyse.
Results of PBT and vPvB assessment	PBT: Not applicable. vPvB: Not applicable.
Other adverse effects	No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation	Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification

UN number	Not Regulated
UN proper shipping name	Not Regulated
Transport hazard class(es)	Not Regulated
Packing group	Not Regulated

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Environmental Hazards	Not applicable.
Special precautions for user	Not applicable.
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation"	Not Regulated

SECTION 15: REGULATORY INFORMATION

Sara

Section 355
(extremely hazardous substances)
None of the ingredients is listed.

Section 313
(Specific toxic chemical listings)

55406-53-6	3-Iodo-2-propynylbutylcarbamate

TSCA
(Toxic Substances Control Act)

64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic
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55406-53-6	3-Iodo-2-propynylbutylcarbamate

Proposition 65

Chemicals known to cause cancer	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.
Chemicals known to cause developmental toxicity	None of the ingredients is listed.

Carcinogenic categories

EPA
(Environmental Protection Agency)
None of the ingredients is listed

TLV
(Threshold Limit Value established by ACGIH)
None of the ingredients is listed

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NIOSH-Ca None of the ingredients is listed
(National Institute for Occupational Safety and Health)

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

Hazard pictogram

GHS07

Signal word Warning

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Hazard Statement May cause an allergic skin reaction.

Precautionary statements

Prevention
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Wear protective gloves

Response
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If skin irritation or rash occurs: Get medical advice/attention.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations

Chemical safety assessment
A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Revision Date: 2/26/2018 - 2
Revision Date: 1/25/2018 - 1
Date: 11/10/2016

Abbreviations and acronyms:
DOT: US Department of Transportation
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Sens. 1B: Sensitization - Skin, Hazard Category 1B

HMIS:

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