Walter USA, LLC
N22 W23855 RidgeView Parkway W
Waukesha, WI 53188

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name:	**VP 700**
Supplier:	Walter USA N22 W23855 RidgeView Parkway W. Waukesha WI 53188
Telephone: **Fax:** **Email:**	(800) 945-5554 (262) 347-2500 service.us@walter-tools.com
In case of Emergency:	DOMESTIC NORTH AMERICA CHEMTREC, U.S 800-424-9300 INTERNATIONAL 703-527-3887 (24/7)
Other Means of Identification	Not available
Product Code	Not available
Product Type	Liquid
Identified Uses	Semi-synthetic micro-emulsion.

SECTION 2: HAZARD IDENTIFICATION

OSHA / HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
GHS Classification	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS Label

Hazard pictogram

Signal word: Warning

Hazard Statement:
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention	P280 - Wear protective gloves. Wear eye or face protection. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling.
Response	P314 - Get medical attention if you feel unwell. P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	Not applicable
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified (HNOC)

Physical hazards not otherwise classified (PHNOC)	None known.
Health hazards not otherwise classified (HHNOC)	None known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture
Other Means of Identification: Not available

CAS number: Not applicable
Product code: Not available

Components / Ingredients	CAS No.	%
Fatty acids, tall-oil, compds. with isopropanolamine	67701-22-8	1 – 5
2-Aminoethanol	141-43-5	1 – 5
Sulfonic acids, petroleum, sodium salts	68608-26-4	1 – 5
Hexahydro-1,3,5-tris(3-methoxypropyl)-1,3,5-triazine	3960-05-2	1 – 5
2,2',2''-Nitrilotriethanol	102-71-6	1 – 5
Boric acid	10043-35-3	1 – 5
2,2'-(Cyclohexylimino)bisethanol	4500-29-2	1 – 5
3-methoxypropylamine	5332-73-0	0.1 - 1

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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Skin Contact Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye Contact Causes serious eye irritation.

Skin Contact Causes skin irritation.

Ingestion Irritating to mouth, throat and stomach.

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Over-exposure signs/symptoms

Eye Contact Adverse symptoms may include the following:
pain or irritation, watering, redness

Skin Contact Adverse symptoms may include the following: Irritation, redness

Ingestion	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Special treatments	No specific treatment
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides Sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	No special measures are required.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

United States

Occupational Exposure Limits

Ingredient Name	Exposure Limits
2-Aminoethanol	**ACGIH TLV (United States, 4/2014).** STEL: 15 mg/m³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 7.5 mg/m³ 8 hours. TWA: 3 ppm 8 hours. **NIOSH REL (United States, 10/2013).** STEL: 15 mg/m³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 8 mg/m³ 10 hours. TWA: 3 ppm 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 6 mg/m³ 8 hours. TWA: 3 ppm 8 hours.
2,2',2''-Nitrilotriethanol	**ACGIH TLV (United States, 4/2014).** TWA: 5 mg/m³ 8 hours.
Boric acid	**ACGIH TLV (United States, 4/2014).** STEL: 6 mg/m³ 15 minutes. Form: Inhalable fraction TWA: 2 mg/m³ 8 hours. Form: Inhalable fraction
3-methoxypropylamine	**AIHA WEEL (United States, 10/2011).** STEL: 15 ppm 15 minutes. TWA: 5 ppm 8 hours.

Engineering Controls	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye / Face Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection

Hand Protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Liquid. [Clear]
Color	Amber
Odor	Mild Characteristic Odor
Odor threshold	Not available

pH - 1% Solution	9.1
Melting point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	1 (Water = 1)
Flammability (solid, gas)	Not available
Lower and upper explosive (flammable) limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.009
Density	Not available
Solubility	Complete in water
Partition coefficient: noctanol/Water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Viscosity	Not available
VOC (w/w)	8.4% (w/w)

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	No specific data.
Incompatibility with other Materials	Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
Hazardous decomposition materials	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Aminoethanol	LD50 Oral	Rat	1720 mg/kg	-
Sulfonic acids, petroleum, sodium salts	LD50 Oral	Rat	>5 g/kg	-
2,2',2''-Nitrilotriethanol	LD50 Oral	Rat	7.39 g/kg	-
2,2'-(Cyclohexylimino)bisethanol	LD50 Oral	Rat	2600 mg/kg	-

Irritation/Corrosion

Product/ ingredient name	Result	Species	Score	Exposure	Observation
2-Aminoethanol	Eyes - Severe irritant	Rabbit	-	250 µg	-
	Skin - Moderate irritant	Rabbit	-	505 mg	-
2,2',2''-Nitrilotriethanol	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Human	-	72 hours 15 mg Intermittent	-
	Skin - Severe irritant	Mouse	-	50%	-
	Skin - Mild irritant	Rabbit	-	24 hours 560 mg	-
Boric acid	Skin - Mild irritant	Human	-	72 hours 15 mg Intermittent	-

Sensitization – There is no data available

Carcinogenicity

Product/ ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
2,2',2''-Nitrilotriethanol	-	3	-	-	-	-
Boric acid	-	-	-	A4	-	-

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-Aminoethanol	Category 3	Not applicable	Respiratory tract irritation
Hexahydro-1,3,5-tris(3-methoxypropyl)-1,3,5-triazine	Category 3	Not applicable	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2,2'-(Cyclohexylimino)bisethanol	Category 2	Oral	Not determined

Aspiration hazard – There is no data available

Information on the likely routes of exposure – Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eye Contact	Causes serious eye irritation.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin Contact	Causes skin irritation.
Ingestion	Irritating to mouth, throat and stomach.

Symptoms related to physical, chemical and toxicological characteristics

Eye Contact	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	No known significant effects or critical hazards.
Skin Contact	Adverse symptoms may include the following: irritation, redness
Ingestion	No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short Term Exposure

Potential immediate effects	No known significant effects or critical hazards.
Potential delayed effects	No known significant effects or critical hazards.

Long Term exposure

Potential immediate effects	No known significant effects or critical hazards.
Potential delayed effects	No known significant effects or critical hazards.

Potential chronic health effects

General	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measure of toxicity

Acute toxicity estimates

Route	ATE Value
Oral	9446.7 mg/kg
Dermal	34844.8 mg/kg
Inhalation (vapors)	348.4 mg/L

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
2-Aminoethanol	Acute EC50 80000 µg/L Fresh water	Algae - Isochrysis galbana	96 hours
	Acute LC50 >100000 µg/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 170000 µg/L Fresh water	Fish - Carassius auratus	96 hours
2,2',2''-Nitrilotriethanol	Acute LC50 100000 µg/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 11800000 µg/L Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 16000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
Boric acid	Acute LC50 84.28 mg/L Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 133000 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 100000 µg/L Fresh water	Fish - Ptychocheilus lucius – Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 6000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2100 µg/L Fresh water	Fish - Oncorhynchus mykiss	87 days

Persistence and degradability - There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Aminoethanol	-1.31	-	Low
2,2',2''-Nitrilotriethanol	-1	< 3.9	Low
Boric acid	-1.09	-	Low
3-methoxypropylamine	-	2.7 to 3.6	Low

Mobility in soil

Soil/water partition coefficient (KOC) – There is no data available

Other adverse effects – No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposalof this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant

with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental Hazards	No	No	No
Additional information	-	-	-

AERG – Not applicable

Special precautions for user - **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code – Not available

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:

TSCA 4(a) proposed test rules: Sodium 4(or 5)-methyl-1H-benzotriazolide
TSCA 4(a) final test rules: Oils, lard, Me esters; Acetaldehyde
TSCA 8(a) PAIR: Oils, lard, Me esters; 1,1'-Oxydipropan-2-ol; Acetaldehyde
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
TSCA 12(b) one-time export: Oils, lard, Me esters
Commerce control list precursor: 2,2',2''-Nitrilotriethanol
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 311: Potassium hydroxide; Propylene oxide; Acetaldehyde

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not Listed
Clean Air Act Section 602 Class I Substances: Not Listed
Clean Air Act Section 602 Class II Substances: Not Listed
DEA List I Chemicals (Precursor Chemicals): Not Listed
DEA List I Chemicals (Precursor Chemicals): Not Listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons
Ethylene oxide	0 – 0.01	Yes	-	-	-	-
Propylene oxide	0 – 0.01	Yes	10000	1444.3	100	14.4

SARA 304 RQ: 12345679 lbs / 5604938.3 kg [1467460.9 gal / 5554943.8 L]

SARA 311/312

Classification: Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Fatty acids, tall-oil, compounds. with isopropanolamine	1 - 5	No	No	No	Yes	No
2-Aminoethanol	1 – 5	No	No	No	Yes	No
Sulfonic acids, petroleum, sodium salts	1 – 5	No	No	No	Yes	No
Hexahydro-1,3,5-tris(3-methoxypropyl)-1,3, 5-triazine	1 – 5	No	No	No	Yes	No
2,2',2''-Nitrilotriethanol	1 – 5	No	No	No	Yes	No
Boric acid	1 – 5	No	No	No	No	Yes
2,2'-(Cyclohexylimino)bisethanol	1 - 5	No	No	No	Yes	Yes
3-methoxypropylamine	0.1 - 1	Yes	No	No	Yes	No

SARA 313: No Products were found

State Regulations

Massachusetts The following components are listed: 2,2',2''-Nitrilotriethanol; 2-Aminoethanol

New York None of the components are listed.

New Jersey The following components are listed: Distillates (petroleum), hydrotreated heavy naphthenic; 2,2',2''-Nitrilotriethanol; 2-Aminoethanol; Boric acid

Pennsylvania The following components are listed: 2,2',2''-Nitrilotriethanol; 2-Aminoethanol

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Diethanolamine	Yes	No	No	No
1,4-Dioxane	Yes	No	Yes	No
Ethylene oxide	Yes	Yes	Yes	Yes

Propylene oxide	Yes	No	No	No
Acetaldehyde	Yes	No	90 µg/day (inhalation)	No

SECTION 16: OTHER INFORMATION

Date of issue: June 15, 2015
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Prepared by: KMK Regulatory Services Inc.
Key to abbreviations:

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labeling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

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