

1. Product and Company Identification

Product Code: VLPMF
Product Name: TOTAL CONCEPT
Company Name: THE METRO GROUP, INC
50-23 23RD STREET
LONG ISLAND CITY, NY 11101
Phone Number: (718)729-7200
Web site address: www.metrogroupinc.com
Emergency Contact: CHEMTREC (800)424-9300
Synonyms: BOILER WATER CLEANER

2. Hazards Identification

Skin Corrosion/Irritation, Category 1A

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1

Specific Target Organ Toxicity (repeated exposure), Category 2



GHS Signal Word: Danger

GHS Hazard Phrases:
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H373: May cause damage to internal organs through prolonged or repeated exposure.

GHS Precaution Phrases:
P260: Do not breathe fumes or mist.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P362+364: Take off contaminated clothing and wash it before reuse.

GHS Response Phrases:
P303+361+353: IF ON SKIN: Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P305+351+338: IF IN EYES: Rinse thoroughly with water for 15 minutes. Remove contact lenses, Continue rinsing.
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P333+313: If skin irritation or rash occurs, seek medical advice/attention.
P314: Get medical attention/advice if you feel unwell.

GHS Storage and Disposal Phrases:
Refer to manufacturer/supplier for information on recovery/recycling.
Dispose of contents/container in accordance with local, state or federal guidelines.

Hazard Rating System:

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:



OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

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Potential Health Effects (Acute and Chronic):	Causes severe skin burns and eye damage. Harmful if swallowed or if inhaled.
Inhalation:	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache and dizziness.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause transient corneal injury. Causes severe eye irritation and possible eye injury.
Ingestion:	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. May be harmful if swallowed.
Medical Conditions Generally Aggravated By Exposure:	Not Determined.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
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4. First Aid Measures

Emergency and First Aid Procedures:	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
In Case of Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
In Case of Skin Contact:	In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
In Case of Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.
In Case of Ingestion:	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.
Signs and Symptoms Of Exposure:	Mild irritation effect.
Note to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	> 200.00 F (93.3 C)	Method Used:	Closed Cup
Explosive Limits:	LEL: No data.	UEL:	No data.
Autoignition Pt:	No data.		
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or appropriate foam.		
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Combustible liquid and vapor.		
Flammable Properties and Hazards:	Not Flammable.		

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Goggles or face shield, rubber gloves.
Environmental Precautions:	Dispose of contents/container to local, state and federal guidelines.
Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

7. Handling and Storage

Precautions To Be Taken in Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers with product residue, (liquid and/or vapor), can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat and flame. Avoid breathing spray or mist.
Precautions To Be Taken in Storing:	Keep away from heat and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.
Other Precautions:	Do not get in eyes, on skin or clothing.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits

Respiratory Equipment (Specify Type):	No data available.
Eye Protection:	Wear chemical splash goggles.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing:	Wear appropriate protective clothing to minimize contact with skin.
Engineering Controls (Ventilation etc.):	Local exhaust or ventilation may be necessary when handling or using this product.
Environmental Exposure Controls:	Ventilation is normally required when handling or using this product.

9. Physical and Chemical Properties

Physical States:	☐ Gas ☒ Liquid ☐ Solid
Appearance and Odor:	Appearance: Clear to Light Amber Odor: Sulfurous odor
Melting Point:	No data.
Boiling Point:	> 0 F (-17.8 C)
Autoignition Pt:	No data.
Flash Pt:	> 200.00 F (93.3 C) Method Used: Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	NA
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	COMPLETE
Solubility Notes:	1 % pH recorded.
pH:	- 1.0 - 2.0
Percent Volatile:	N.A.

10. Stability and Reactivity

Reactivity:	Stable. However, may decompose if heated.
Stability:	Unstable ☐ Stable ☒
Conditions To Avoid - Instability:	Ignition sources, Excessive heat.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Strong reducing agents, Strong bases, Perchloric acid, Aldehydes, nitric acid + hydrogen peroxide.
Hazardous Decomposition Or Byproducts:	Carbon monoxide, Carbon dioxide.
Possibility of Hazardous Reactions:	Will occur ☐ Will not occur ☒
Conditions To Avoid - Hazardous Reactions:	Product will not undergo polymerization.

11. Toxicological Information

Toxicological Information: No data available.
Carcinogenicity/Other Information: CAS# 98-86-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information: Not Determined

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series:
CAS# 98-86-2:: waste number U004.

Waste Disposal Method: D002

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Sulfamic acid
DOT Hazard Class: 8 **CORROSIVE**
UN/NA Number: UN2967 **Packing Group:** III
Precautionary Label: DANGER



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: No information available.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:
UN Number: 2967 **Packing Group:** III
Hazard Class: 8 - CORROSIVE
Marine Pollutant: No

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
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This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[X] Yes [] No	Acute (immediate) Health Hazard
[] Yes [X] No	Chronic (delayed) Health Hazard
[] Yes [X] No	Fire Hazard
[] Yes [X] No	Sudden Release of Pressure Hazard
[] Yes [X] No	Reactive Hazard

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CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
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Regulatory Information Statement:

16. Other Information

Revision Date: 11/21/2014

Preparer Name: PRAGNESH KANSUPADA (800)925-4948

Additional Information About This Product: No data available.

Company Policy or Disclaimer: This information relates to this specific material. It may not be valid for this material if used in combination with other materials or in any process. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.