Whiting Systems, Inc.

Automated Vehicle Wash System



Safety Data Sheet

Issue Date: 24-Jul-2014 Revision Date: 25-Jul-2014 Version 1

1. IDENTIFICATION

Product Identifier

Formula 20 12 3 **Product Name**

Other means of identification

WS-055 Recommended use of the chemical and restrictions on use Recommended Use Cleaning agent.

Details of the supplier of the safety data sheet

Supplier Address Whiting Systems, Inc. 9000 Highway 5 North

Alexander, AR 72002

Emergency Telephone Number Company Phone Number 1-800-542-9031

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Physical State Liquid

Classification		
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2	

Signal Word

Warning **Hazard Statements**

Causes skin irritation

Causes serious eye irritation



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash it before reuse If skin irritation occurs: Get medical advice/attention

in skill lithation occurs. Get medical device/attention				
3. COMPOSITION/INFORMATION ON INGREDIENTS				
Chemical Name	Weight-%			
Diethylene Glycol Monobutyl Ether	112-34-5	1-10		
Sodium Tripolyphosphate	7758-29-4	1-10		
Sodium metasilicate	6834-92-0	1-10		
Monoethanolamine	141-43-5	1-10		

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Eye Contact

If eye irritation persists: Get medical advice/attention.

Skin Contact Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs:

Get medical advice/ attention.

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms Causes skin irritation. Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Methods and material for containment and cleaning up

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Methods for Containment Prevent further leakage or spillage if safe to do so. Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and

eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Tripolyphosphate 7758-29-4	15 mg/m ³	15 mg/m ³	-
Sodium metasilicate 6834-92-0	2 mg/m ³	2 mg/m ³	-
Monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mo/m³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m³ STEL: 6 ppm STEL: 15 mg/m³

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. **Engineering Controls**

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. **Skin and Body Protection** Wear suitable protective clothing.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Remarks • Method

Physical State Liquid

Appearance Transparent Slight ammonical Odor **Odor Threshold** Color Green Not determined

Property Values Melting Point/Freezing Point 32° F

Boiling Point/Boiling Range Not determined 212° F

Flash Point 185° F

Evaporation Rate <1 (water =1) Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not determined Lower Flammability Limit Vapor Pressure Vapor Density Not determined 17mm @ 20° C Not determined Not determined Complete Not determined Not determined

Specific Gravity Water Solubility Solubility in other solvents **Partition Coefficient Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined Oxidizing Properties Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

<u>Incompatible Materials</u> None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eve Contact Causes serious eye irritation. **Skin Contact** Causes skin irritation. Inhalation Do not inhale. Ingestion Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene Glycol Monobutyl Ether 112-34-5	= 3384 mg/kg (Rat)	= 2700 mg/kg(Rabbit)	-
Sodium Tripolyphosphate 7758-29-4	= 3100 mg/kg (Rat)	> 7940 mg/kg(Rabbit)	-
Nonoxynol 9016-45-9	= 1310 mg/kg (Rat)	= 2 mL/kg(Rabbit)	-
Sodium metasilicate 6834-92-0	= 600 mg/kg (Rat)	-	-

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Monoethanolamine 141-43-5	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit)	-
Sodium xylenesulfonate 1300-72-7	= 7200 mg/kg(Rat)	-	-
Aminotrimethylene Phosphonic Acid 6419-19-8	= 2100 mg/kg(Rat)	> 6310 mg/kg(Rabbit)	-
Tetrasodium EDTA 64-02-8	= 10 g/kg (Rat)	-	-
Trisodium Nitrilotriacetate 5064-31-3	= 920 mg/kg (Rat)	-	> 5 mg/L(Rat)4 h
Sodium Glycolate 2836-32-0	= 7110 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.
Carcinogenicity Carcinogenic potential is unknown.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diethylene Glycol Monobutyl Ether 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	•	2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50
Sodium Tripolyphosphate 7758-29-4		1650: 48 h Leuciscus idus mg/L LC50		
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi- static 210: 96 h Brachydanio rerio mg/L LC50		216: 96 h Daphnia magna mg/L EC50
Monoethanolamine 141-43-5	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3884: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		65: 48 h Daphnia magna mg/L EC50
Aminotrimethylene Phosphonic Acid 6419-19-8	19.6: 96 h Pseudokirchneriella subcapitata mg/L EC50	8132: 96 h Pimephales promelas mg/L LC50 330: 96 h Lepomis macrochirus mg/L LC50 static		297: 48 h Daphnia magna mg/L EC50
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		610: 24 h Daphnia magna mg/L EC50
Trisodium Nitrilotriacetate 5064-31-3	560 - 1000: 96 h Chlorella vulgaris mg/L EC50	93 - 170: 96 h Pimephales promelas mg/L LC50 flow-through 175 - 225: 96 h Lepomis macrochirus mg/L LC50 static 252: 96 h Lepomis macrochirus mg/L LC50 470: 96 h Pimephales promelas mg/L LC50 static 560 - 1000: 96 h Oryzias latipes mg/L LC50 560- 1000: 96 h Oryzias latipes mg/L LC50 semi- static 72 - 133: 96 h Oncorhynchus mykiss mg/L LC50 static 560 - 1000: 96 h Peecilia reticulata mg/L LC50 semi-static 560 - 1000: 96 h Poecilia reticulata mg/L LC50 114: 96 h Pimephales promelas mg/L LC50 114: 96 h		560 - 1000: 48 h Daphnia magna mg/L LC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Monoethanolamine 141-43-5	-1.91

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special

circumstances Not regulated Not regulated Not regulated

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

SARA 313

DOT

IATA IMDG

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values
			%
Diethylene Glycol Monobutyl Ether - 112-34-5	112-34-5	1-10	1.0

US State Regulations

U.S. State Right-to-Know Regulations

				
Chemical Name	New Jersey	Massachusetts	Pennsylvania	
Diethylene Glycol Monobutyl Ether 112-34-5	X		X	
Sodium Tripolyphosphate 7758-29-4		X	Х	
Monoethanolamine 141-43-5	X	X	Х	
Trisodium Nitrilotriacetate 5064-31-3		X		

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 Revision Note:
 New format

<u>Disclaimer</u>

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End of Safety Data Sheet