



## Material Safety Data Sheet

Prepared in accordance with ISO 11014-1/ANSI standard Z400.1-2004

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product code** 9637  
**Product name** Screen Wash

#### Manufacturer or supplier's details

UNITED STATES  
Nazdar Company  
8501 Hedge Lane Terrace  
Shawnee, KS 66227  
Tel: 1-913-422-1888  
Tel: 1-800-677-4657  
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UNITED KINGDOM  
Nazdar Limited  
7 Barton Road  
Heaton Mersey Industrial Estate  
Stockport, Chesire SK4 3EG  
Tel: +44 161 442 2111

#### Emergency Telephone Number

USA: Chemtrec: 1-800-424-9300  
Outside USA: Chemtrec: 1-703-527-3887

Website: [www.nazdar.com](http://www.nazdar.com)  
MSDS Information: 1-913-422-1888 ext 2305  
MSDS Contact: Regulatory Compliance  
email: [regcomp@nazdar.com](mailto:regcomp@nazdar.com)

### 2. HAZARDS IDENTIFICATION

*This product is a preparation. Health hazard information is based on its components.*

**Appearance** Water-white.  
**Flammable Properties** Combustible liquid and vapor.  
**Emergency Overview** Harmful. Aspiration hazard. Harmful: may cause lung damage if swallowed. May cause drowsiness and dizziness.

**Eyes** May cause eye irritation. The liquid splashed in the eyes may cause irritation and reversible damage.

**Skin** Causes skin irritation. Prolonged skin contact may defat the skin and produce dermatitis. May be absorbed through the skin in harmful amounts.

**Inhalation** Harmful by inhalation. Avoid breathing vapors or mists. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.

**Ingestion** Harmful if swallowed. Potential for aspiration if swallowed. Risk of serious damage to the lungs (by aspiration).

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Cyclohexanone	108-94-1	60 - 100
Petroleum naphtha, light aromatic	64742-95-6	30 - 60
1,2,4-Trimethylbenzene (contaminant)	95-63-6	10 - 30
1,3,5-Trimethylbenzene (contaminant)	108-67-8	1 - 5
Cumene (contaminant)	98-82-8	1 - 5
1,2,3-Trimethylbenzene (contaminant)	526-73-8	1 - 5
Xylenes (o-, m-, p- isomers) (contaminant)	1330-20-7	1 - 5

- Component names which have the word (contaminant) are constituents contained in Aromatic Hydrocarbon ingredients and are an integral part of the ingredient and cannot be separated. The percentage listed for the contaminant is as contained in the Hydrocarbon ingredient. (Example: 100% Hydrocarbon, 10% Contaminant A, 3% Contaminant B)

### 4. FIRST AID MEASURES

**Skin Contact** Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
<b>Inhalation</b>	Move to fresh air. If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Combustible liquid and vapor.
<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep away from fire, sparks and heated surfaces. Keep container tightly closed. Cool containers / tanks with water spray. Fire or intense heat may cause violent rupture of packages.
<b>Specific Hazards Arising from the Chemical</b>	Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Remove all sources of ignition. Heat, flames and sparks. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Methods for Cleaning Up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use sparking tools.
<b>Environmental Precautions</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of labels and material safety data sheets for the working chemicals. Do not take internally. Harmful or fatal if swallowed.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition. Take notice of the directions of use on the label.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Component	Weight %	ACGIH TLV	OSHA PEL	Ontario TWAEV
Cyclohexanone	60 - 100	TWA: 20 ppm Skin STEL: 50 ppm	TWA: 25 ppm TWA: 100 mg/m <sup>3</sup> Skin TWA: 50 ppm TWA: 200 mg/m <sup>3</sup>	TWA: 20 ppm STEL: 50 ppm Skin

Component	Weight %	ACGIH TLV	OSHA PEL	Ontario TWAEV
1,2,4-Trimethylbenzene (contaminant)	10 - 30	TWA: 25 ppm		TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>
1,3,5-Trimethylbenzene (contaminant)	1 - 5	TWA: 25 ppm		TWA: 123 mg/m <sup>3</sup> TWA: 25 ppm
Cumene (contaminant)	1 - 5	TWA: 50 ppm	TWA: 245 mg/m <sup>3</sup> TWA: 50 ppm Skin	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup> Skin
1,2,3-Trimethylbenzene (contaminant)	1 - 5	TWA: 25 ppm		TWA: 123 mg/m <sup>3</sup> TWA: 25 ppm
Xylenes (o-, m-, p- isomers) (contaminant)	1 - 5	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 150 ppm STEL: 655 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 150 ppm STEL: 650 mg/m <sup>3</sup>

Component	Weight %	NIOSH IDLH	Mexico OEL (TWA)
Cyclohexanone	60 - 100	700 ppm	TWA: 50 ppm TWA: 200 mg/m <sup>3</sup> STEL: 400 mg/m <sup>3</sup> STEL: 100 ppm
1,2,4-Trimethylbenzene (contaminant)	10 - 30		TWA: 125 mg/m <sup>3</sup> TWA: 25 ppm STEL: 35 ppm STEL: 170 mg/m <sup>3</sup>
1,3,5-Trimethylbenzene (contaminant)	1 - 5		TWA: 125 mg/m <sup>3</sup> TWA: 25 ppm STEL: 35 ppm STEL: 170 mg/m <sup>3</sup>
Cumene (contaminant)	1 - 5	900 ppm 10% LEL	TWA: 245 mg/m <sup>3</sup> TWA: 50 ppm STEL: 365 mg/m <sup>3</sup> STEL: 75 ppm
1,2,3-Trimethylbenzene (contaminant)	1 - 5		TWA: 25 ppm TWA: 125 mg/m <sup>3</sup> STEL: 170 mg/m <sup>3</sup> STEL: 35 ppm
Xylenes (o-, m-, p- isomers) (contaminant)	1 - 5		TWA: 435 mg/m <sup>3</sup> TWA: 100 ppm STEL: 150 ppm STEL: 655 mg/m <sup>3</sup>

NIOSH IDLH: *Immediately Dangerous to Life or Health*

### Engineering Measures

Use only with adequate ventilation. Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS. In case of insufficient ventilation, wear suitable respiratory equipment.

### Personal Protective Equipment

#### Respiratory Protection

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapour filter.

#### Eye Protection

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

#### Skin Protection

Wear protective gloves/clothing. Solvent-resistant apron and boots.

### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Water-white	<b>Physical State</b>	Liquid
<b>Odor</b>	Characteristic	<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available	<b>Autoignition Temperature</b>	No information available
<b>Boiling point/Boiling Range</b>	>149°C / >300°F	<b>Melting Point/Range</b>	No information available
<b>Freezing Point/Range</b>	No information available	<b>Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Vapour Pressure</b>	No information available	<b>Vapour Density</b>	Heavier than air
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limits in Air</b>		<b>Flash Point</b>	43°C / 110°F
<b>Upper</b>	No information available	<b>Method</b>	Pensky Martens Closed Cup (PMCC)
<b>Lower</b>	1.0		
		<b>Photochemically Reactive</b>	Yes
<b>Weight Per Gallon (lbs/gal)</b>	7.652	<b>Specific Gravity</b>	0.92
<b>VOC by weight</b>	100	<b>VOC by volume</b>	100
<b>VOC lbs/gal</b>	7.663	<b>VOC grams/liter</b>	918.23

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Incompatible Products</b>	Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cyclohexanone	800 mg/kg ( Rat )	948 mg/kg ( Rabbit )	10.7 mg/L ( Rat ) 4 h 8000 ppm ( Rat ) 4 h
Petroleum naphtha, light aromatic	8400 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	5.2 mg/L ( Rat ) 4 h 3400 ppm ( Rat ) 4 h
1,2,4-Trimethylbenzene (contaminant)	3400 mg/kg ( Rat ) 8970 mg/kg ( Rat )	3160 mg/kg ( Rabbit )	18 g/m <sup>3</sup> ( Rat ) 4 h
1,3,5-Trimethylbenzene (contaminant)	8970 mg/kg ( Rat ) 5000 mg/kg ( Rat )		24 g/m <sup>3</sup> ( Rat ) 4 h
Cumene (contaminant)	1400 mg/kg ( Rat )	3160 mg/kg ( Rabbit )	39000 mg/m <sup>3</sup> ( Rat ) 4 h
1,2,3-Trimethylbenzene (contaminant)	8970 mg/kg ( Rat )		
Xylenes (o-, m-, p- isomers) (contaminant)	4300 mg/kg ( Rat )	1700 mg/kg ( Rabbit )	5000 ppm ( Rat ) 4 h 47635 mg/L ( Rat ) 4 h

### Chronic Toxicity

Component	ACGIH	IARC	NTP	OSHA
Cyclohexanone	A3			

Legend:

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

<b>Sensitisation</b>	No information available
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>Developmental Effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Chronic Effects</b>	Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.
<b>Target Organ Effects</b>	Blood, Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

We have no quantitative data concerning the ecological effects of this product. Environmental fate information is derived from consideration of the properties of the ingredients. Should not be released into the environment.

Component	Freshwater Algae	Freshwater Fish	Water Flea
Cyclohexanone	96 Hr EC50 <i>Chlorella vulgaris</i> : 20 mg/L	96 Hr LC50 <i>Pimephales promelas</i> : 8.9 mg/L	48 Hr EC50 water flea: 820 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 800 mg/L
Petroleum naphtha, light aromatic		96 Hr LC50 <i>Oncorhynchus mykiss</i> : 9.22 mg/L	48 Hr EC50 <i>Daphnia magna</i> : 6.14 mg/L
1,2,4-Trimethylbenzene (contaminant)		96 Hr LC50 <i>Pimephales promelas</i> : 7.72 mg/L [flow-through]	48 Hr EC50 <i>Daphnia magna</i> : 6.14 mg/L
1,3,5-Trimethylbenzene (contaminant)		96 Hr LC50 <i>Pimephales promelas</i> : 3.48 mg/L 96 Hr LC50 <i>Pimephales promelas</i> : 7.72 mg/L [flow-through]	24 Hr EC50 water flea: 50 mg/L
Cumene (contaminant)	72 Hr EC50 <i>Selenastrum capricornutum</i> : 2.6 mg/L	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 4.8 mg/L [flow-through]	48 Hr EC50 water flea: 0.6 mg/L
1,2,3-Trimethylbenzene (contaminant)		96 Hr LC50 <i>Pimephales promelas</i> : 7.72 mg/L [flow-through]	
Xylenes (o-, m-, p- isomers) (contaminant)		96 Hr LC50 <i>Pimephales promelas</i> : 13.4 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 8.05 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 16.1 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 26.7 mg/L [static]	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 <i>Gammarus lacustris</i> : 0.6 mg/L

<b>Persistence and Degradability</b>	No information available
<b>Bioaccumulation</b>	No information available
<b>Mobility in Environmental Media</b>	No information available

Component	log Pow
Cyclohexanone	0.86

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	Dispose of contents/container in accordance with local regulation.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**DOT**

UN1210, Printing Ink Related Material, 3, III

**ICAO/IATA**

UN1210, Printing Ink Related Material, 3, III

**IMDG/IMO**

UN1210, Printing Ink Related Material, 3, III

## 15. REGULATORY INFORMATION

**International Inventories**

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
1,2,4-Trimethylbenzene (contaminant)	95-63-6	10 - 30	1.0
Cumene (contaminant)	98-82-8	1 - 5	1.0
Xylenes (o-, m-, p- isomers) (contaminant)	1330-20-7	1 - 5	1.0

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following HAPs:

Component	CAS-No	Weight %
Cumene (contaminant)	98-82-8	1 - 5
Xylenes (o-, m-, p- isomers) (contaminant)	1330-20-7	1 - 5

**U.S. State Regulations****California Prop. 65**

WARNING! This product contains a chemical known in the State of California to cause cancer. WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Component	CAS-No	Weight %
Benzene	71-43-2	< 0.01
Toluene	108-88-3	< 0.1

**State Right-to-Know**

Component	Minnesota	Florida	New Jersey	Pennsylvania	Massachusetts	Rhode Island
Cyclohexanone	Not Listed	Not Listed	X	X	X	X
Petroleum naphtha, light aromatic	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,2,4-Trimethylbenzene (contaminant)	Not Listed	Not Listed	X	X	X	X
1,3,5-Trimethylbenzene (contaminant)	Not Listed	Not Listed	X	X	X	X
Cumene (contaminant)	Not Listed	Not Listed	X	X	X	X
1,2,3-Trimethylbenzene (contaminant)	Not Listed	Not Listed	X	X	X	X
Xylenes (o-, m-, p- isomers) (contaminant)	Not Listed	Not Listed	X	X	X	X

**Canada**

