



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 IMS301
Product name Premium Graphic Press Wash
Product description Imagestar®

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
Fax: 1-913-422-2294

UNITED KINGDOM
Nazdar Limited
7 Barton Road
Heaton Mersey Industrial Estate
Stockport, Cheshire 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
MSDS Information: 1-913-422-1888 ext 2305
MSDS Contact: Regulatory Compliance
email: 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 Aspiration hazard. Harmful: may cause lung damage if swallowed. Irritant. May cause drowsiness and dizziness.

Eyes Moderately irritating to the eyes. The liquid splashed in the eyes may cause irritation and reversible damage.

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

Inhalation Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Risk of serious damage to the lungs (by inhalation).

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 %
Petroleum naphtha, light aromatic	64742-95-6	60 - 100
1,2,4-Trimethylbenzene (contaminant)	95-63-6	10 - 30
Diacetone alcohol	123-42-2	10 - 30
Propylene glycol monomethyl ether	107-98-2	10 - 30
1,3,5-Trimethylbenzene (contaminant)	108-67-8	5 - 10
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

Eye Contact 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.

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.
Inhalation	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.
Ingestion	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

Flammable Properties	Combustible liquid and vapor.
Suitable Extinguishing Media	Foam. Carbon dioxide (CO ₂). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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. 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.
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	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.
Methods for Cleaning Up	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.
Environmental Precautions	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

Handling	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.
Storage	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	ACGIH TLV	OSHA PEL	NIOSH IDLH	Ontario TWAEV	Mexico OEL (TWA)
1,2,4-Trimethylbenzene (contaminant)	TWA: 25 ppm			TWA: 25 ppm TWA: 123 mg/m ³	TWA: 125 mg/m ³ TWA: 25 ppm STEL: 35 ppm STEL: 170 mg/m ³
Diacetone alcohol	TWA: 50 ppm	TWA: 50 ppm TWA: 240 mg/m ³	1800 ppm 10% LEL	TWA: 240 mg/m ³ TWA: 50 ppm STEL: 360 mg/m ³ STEL: 75 ppm	TWA: 240 mg/m ³ TWA: 50 ppm STEL: 75 ppm STEL: 360 mg/m ³

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Ontario TWAEV	Mexico OEL (TWA)
Propylene glycol monomethyl ether	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 540 mg/m ³ STEL: 150 ppm		TWA: 365 mg/m ³ TWA: 100 ppm STEL: 150 ppm STEL: 550 mg/m ³	
1,3,5-Trimethylbenzene (contaminant)	TWA: 25 ppm			TWA: 123 mg/m ³ TWA: 25 ppm	TWA: 125 mg/m ³ TWA: 25 ppm STEL: 35 ppm STEL: 170 mg/m ³
Cumene (contaminant)	TWA: 50 ppm	TWA: 245 mg/m ³ TWA: 50 ppm Skin	900 ppm 10% LEL	TWA: 50 ppm TWA: 245 mg/m ³ Skin	TWA: 245 mg/m ³ TWA: 50 ppm STEL: 365 mg/m ³ STEL: 75 ppm
1,2,3-Trimethylbenzene (contaminant)	TWA: 25 ppm			TWA: 123 mg/m ³ TWA: 25 ppm	TWA: 25 ppm TWA: 125 mg/m ³ STEL: 170 mg/m ³ STEL: 35 ppm
Xylenes (o-, m-, p- isomers) (contaminant)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 655 mg/m ³		TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 650 mg/m ³	TWA: 435 mg/m ³ TWA: 100 ppm STEL: 150 ppm STEL: 655 mg/m ³

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

Appearance	Water-white	Physical State	Liquid
Odor	Characteristic	Odor Threshold	No information available
pH	No information available	Autoignition Temperature	No information available
Boiling point/Boiling Range	>149°C / >300°F	Melting Point/Range	No information available
Freezing Point/Range	No information available	Solubility	No information available
Evaporation Rate	No information available	Partition Coefficient (n-octanol/water)	No information available
Vapour Pressure	No information available	Vapour Density	Heavier than air
Flammability (solid, gas)	No information available	Flash Point	39°C / 102°F
Flammability Limits in Air		Method	Pensky Martens Closed Cup (PMCC)
Upper	No information available	Photochemically Reactive	Yes
Lower	No information available		
Weight Per Gallon (lbs/gal)	7.476	Specific Gravity	0.897
VOC by weight %	100	VOC by volume %	100
VOC lbs/gal (less water)	7.482	VOC grams/liter (less water)	896.589

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Conditions to Avoid Heat, flames and sparks.

Incompatible Products Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO₂). Carbon monoxide.

Possibility of Hazardous Reactions None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
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 ³ (Rat) 4 h
Diacetone alcohol	4 g/kg (Rat)	13500 mg/kg (Rabbit)	
Propylene glycol monomethyl ether	5200 mg/kg (Rat)	13000 mg/kg (Rabbit)	54.6 mg/L (Rat) 4 h 24 mg/L (Rat) 1 h
1,3,5-Trimethylbenzene (contaminant)	8970 mg/kg (Rat) 5000 mg/kg (Rat)		24 g/m ³ (Rat) 4 h
Cumene (contaminant)	1400 mg/kg (Rat)	3160 mg/kg (Rabbit)	39000 mg/m ³ (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

No information available

Sensitisation

No information available

Mutagenic Effects

No information available

Reproductive Effects

No information available

Developmental Effects

No information available

Teratogenicity

No information available

Chronic Effects

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. Blood, Central nervous system, Eyes, Liver, Respiratory system, Skin.

Target Organ Effects

12. ECOLOGICAL INFORMATION

Ecotoxicity

We have no quantitative data concerning the ecological effects of this product. Should not be released into the environment.

Component	Freshwater Algae	Freshwater Fish	Water Flea
Petroleum naphtha, light aromatic		96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L	48 Hr EC50 Daphnia magna: 6.14 mg/L
1,2,4-Trimethylbenzene (contaminant)		96 Hr LC50 Pimephales promelas: 7.72 mg/L [flow-through]	48 Hr EC50 Daphnia magna: 6.14 mg/L
Diacetone alcohol		96 Hr LC50 Lepomis macrochirus: 420 mg/L	48 Hr EC50 water flea: 8750 mg/L
Propylene glycol monomethyl ether		96 Hr LC50 Pimephales promelas: 20.8 g/L [static]; 96 Hr LC50 Leuciscus idus: 4600-10000 mg/L [static]	96 Hr EC50 water flea: 10457 mg/L
1,3,5-Trimethylbenzene (contaminant)		96 Hr LC50 Pimephales promelas: 3.48 mg/L 96 Hr LC50 Pimephales promelas: 7.72 mg/L [flow-through]	24 Hr EC50 water flea: 50 mg/L

Component	Freshwater Algae	Freshwater Fish	Water Flea
Cumene (contaminant)	72 Hr EC50 Selenastrum capricornutum: 2.6 mg/L	96 Hr LC50 Oncorhynchus mykiss: 4.8 mg/L [flow-through]	48 Hr EC50 water flea: 0.6 mg/L
1,2,3-Trimethylbenzene (contaminant)		96 Hr LC50 Pimephales promelas: 7.72 mg/L [flow-through]	
Xylenes (o-, m-, p- isomers) (contaminant)		96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 8.05 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.1 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 26.7 mg/L [static]	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

Persistence and Degradability No information available
Bioaccumulation No information available
Mobility in Environmental Media No information available

Component	log Pow
Diacetone alcohol	1.03
Propylene glycol monomethyl ether	-0.437

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of contents/container in accordance with local regulation.

Contaminated Packaging 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

In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

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
Xylenes (o-, m-, p- isomers) (contaminant)	1330-20-7	1 - 5	1.0
1,2,4-Trimethylbenzene (contaminant)	95-63-6	10 - 30	1.0
Cumene (contaminant)	98-82-8	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 %
Xylenes (o-, m-, p- isomers) (contaminant)	1330-20-7	1 - 5
Cumene (contaminant)	98-82-8	1 - 5

U.S. State Regulations

State Right-to-Know

Component	Minnesota	Florida	New Jersey	Pennsylvania	Massachusetts	Rhode Island
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
Diacetone alcohol	Not Listed	Not Listed	X	X	X	X
Propylene glycol monomethyl ether	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

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

Component	WHMIS Classifications of Components
Petroleum naphtha, light aromatic	B3, D2B
1,2,4-Trimethylbenzene (contaminant)	B3
Diacetone alcohol	B3, D2B
Propylene glycol monomethyl ether	B2
1,3,5-Trimethylbenzene (contaminant)	B3
Cumene (contaminant)	B2
1,2,3-Trimethylbenzene (contaminant)	B3
Xylenes (o-, m-, p- isomers) (contaminant)	B2, D2A, D2B

Component	NPRI - National Pollutant Release Inventory
Petroleum naphtha, light aromatic	Part 5 Substance
1,2,4-Trimethylbenzene (contaminant)	Part 1, Group 1 Substance; Part 5 Substance Part 5 Substance (except 1,2,4-Trimethyl benzene) Part 4 Substance
Diacetone alcohol	Part 4 Substance
Propylene glycol monomethyl ether	Part 4 Substance
1,3,5-Trimethylbenzene (contaminant)	Part 5 Substance (except 1,2,4-Trimethyl benzene) Part 4 Substance
Cumene (contaminant)	Part 4 Substance Part 1, Group 1 Substance
1,2,3-Trimethylbenzene (contaminant)	Part 5 Substance (except 1,2,4-Trimethyl benzene) Part 4 Substance
Xylenes (o-, m-, p- isomers) (contaminant)	Part 4 Substance Part 1, Group 1 Substance; Part 5 Substance

REACH: Substances of Very High Concern (SVHC): Article 57 of Regulation (EC) No 1907/2006

Does NOT contain a listed substance

HMIS:	Health 2*	Flammability 2	Reactivity 0	PPE X
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16. OTHER INFORMATION

Revision Date	Oct-27-2009
Revision Summary	New MSDS format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of MSDS