

SAFETY DATA SHEET

 Print Date
 Revision Date
 Revision Number

 Jun-01-2015
 May-31-2015
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product code SW184

Product name Screen Wash Product category Ink Product

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Printing operations

Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
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Shawnee, KS 66227
Barton Road
Heaton Mersey

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Tel: 1-800-677-4657 Tel: +44 161 442 2111

Fax: 1-913-422-2294 www.nazdar.com

Emergency telephone number

USA: Chemtrec: 1-800-424-9300

Outside USA: Chemtrec: 1-703-527-3887 24 Hour Emergency Phone Number

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4 - (H302)
Skin Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Aspiration toxicity	Category 1 - (H304)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 2 - (H225)

Label elements



Signal Word Danger

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Hazard Statements

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects H361d - Suspected of damaging the unborn child

H225 - Highly flammable liquid and vapor

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P331 - Do NOT induce vomiting

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P273 - Avoid release to the environment

Hazards not otherwise classified (HNOC)

Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Inhalation

Component	CAS-No	Weight %	Trade Secret	Note
Toluene	108-88-3	30 - 60	*	
Acetone	67-64-1	10 - 30	*	
Diacetone alcohol	123-42-2	10 - 30	*	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance.

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 if irritation develops and

persists.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. Remove

contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or

stopped, administer artificial respiration. Get medical attention immediately.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

None under normal use conditions.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

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. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and

clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Use personal protective equipment as required. Do not eat, drink or smoke when using this

product. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

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

open flames, hot surfaces and sources of ignition. Keep container closed when not in use.

Keep out of the reach of children.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component	ACGIH TLV
Toluene	TWA: 20 ppm
108-88-3	
Acetone	TWA: 500 ppm
67-64-1	STEL: 750 ppm
Diacetone alcohol	TWA: 50 ppm
123-42-2	

Component	OSHA PEL
Toluene	TWA: 100 ppm
108-88-3	TWA: 375 mg/m ³
	STEL: 150 ppm
	STEL: 560 mg/m ³

	TWA: 200 ppm Ceiling: 300 ppm
Acetone 67-64-1	TWA: 750 ppm TWA: 1800 mg/m³ STEL: 2400 mg/m³ STEL: 1000 ppm TWA: 1000 ppm TWA: 2400 mg/m³
Diacetone alcohol 123-42-2	TWA: 50 ppm TWA: 240 mg/m³

Component	Ontario TWAEV
Toluene	TWA: 20 ppm
108-88-3	
Acetone	TWA: 500 ppm
67-64-1	STEL: 750 ppm
Diacetone alcohol	TWA: 50 ppm
123-42-2	TWA: 240 mg/m ³
	STEL: 75 ppm
	STEL: 360 mg/m ³

Component	Mexico OEL (TWA)
Toluene	TWA/LMPE-PPT: 50 ppm
108-88-3	TWA/LMPE-PPT: 188 mg/m ³
Acetone	TWA/LMPE-PPT: 1000 ppm
67-64-1	TWA/LMPE-PPT: 2400 mg/m ³
	STEL/LMPE-CT: 1260 ppm
	STEL/LMPE-CT: 3000 mg/m ³
Diacetone alcohol	TWA/LMPE-PPT: 50 ppm
123-42-2	TWA/LMPE-PPT: 240 mg/m ³
	STEL/LMPE-CT: 75 ppm
	STEL/LMPE-CT: 360 mg/m ³

Appropriate engineering controls

Engineering Measures

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Eye/face Protection Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear

suitable face shield. Ensure that eyewash stations and safety showers are close to the

workstation location.

Skin Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Respiratory protection must be provided in

accordance with current local regulations.

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

eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of

equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid Appearance Water-white

Odor Characteristic Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHMelting point/freezing pointNo data availableNo data available

Boiling point/Boiling Range > 149 °C / 300 °F

Flash Point -20 °C / -4 °F Closed cup (Minimum)
Evaporation rate No data available

Evaporation rate No data availab

Upper flammability limitNo data availableLower flammability limitNo data availableVapor PressureNo data available

Vapor Density
No data available
Specific Gravity
0.85

Water SolubilityNo data availableSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data availableDecomposition temperatureNo data availableKinematic viscosityNo data available

No data available

Dynamic viscosity No data available

Explosive Properties No data available

Other Information

Oxidizing Properties

Photochemically Reactive Yes Weight Per Gallon (lbs/gal) 7.13

VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
(less water)	(iess water)	(iess water)	(iess water)
100	100	7.15	857.13

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

InhalationThere is no data for this product.Eye ContactThere is no data for this product.Skin ContactThere is no data for this product.IngestionThere is no data for this product.

Component Oral LD50

Toluene 108-88-3	636 mg/kg (Rat)
Acetone 67-64-1	5800 mg/kg (Rat)
Diacetone alcohol 123-42-2	4 g/kg(Rat)

Component	LD50 Dermal
Toluene	12124 mg/kg (Rat)
108-88-3	8390 mg/kg(Rabbit)
Diacetone alcohol	13500 mg/kg (Rabbit)
123-42-2	

Component	Inhalation LC50
Toluene	12.5 mg/L (Rat) 4 h
108-88-3	>26700 ppm (Rat) 1 h

Information on toxicological effects

Symptoms There is no data for this product.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation There is no data for this product. There is no data for this product. Eye damage/irritation Irritation There is no data for this product. There is no data for this product. Corrosivity There is no data for this product. Sensitisation There is no data for this product. **Mutagenic Effects Reproductive Effects** There is no data for this product. STOT - single exposure There is no data for this product. STOT - repeated exposure There is no data for this product. **Chronic Toxicity** There is no data for this product Aspiration hazard There is no data for this product.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,034.00 mg/kg
ATEmix (dermal) 12,702.00 mg/kg mg/l

ATEmix (inhalation-dust/mist) 22.40 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

None known

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Toluene	72h EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]
108-88-3	96h EC50 Pseudokirchneriella subcapitata: 433 mg/L

Component	Fish
Toluene	96h LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]
108-88-3	96h LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static]
	96h LC50 Pimephales promelas: 15.22 - 19.05 mg/L

	[flow-through]
	96h LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through]
	96h LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static]
	96h LC50 Pimephales promelas: 12.6 mg/L [static]
	96h LC50 Poecilia reticulata: 28.2 mg/L [semi-static]
	96h LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]
	96h LC50 Oryzias latipes: 54 mg/L [static]
Acetone	96h LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L 96h LC50
67-64-1	Pimephales promelas: 6210 - 8120 mg/L [static]
	96h LC50 Lepomis macrochirus: 8300 mg/L
Diacetone alcohol	96h LC50 Lepomis macrochirus: 420 mg/L
123-42-2	96h LC50 Lepomis macrochirus: 420 mg/L [static]

Component	Crustacea
Toluene	48h EC50 Daphnia magna: 5.46 - 9.83 mg/L [static]
108-88-3	48h EC50 Daphnia magna: 11.5 mg/L
Acetone	48h EC50 Daphnia magna: 10294 - 17704 mg/L [static]
67-64-1	48h EC50 Daphnia magna: 12600 - 12700 mg/L
Diacetone alcohol 123-42-2	24h EC50 Daphnia magna: 8750 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Component	Partition coefficient
Toluene	2.65
108-88-3	
Acetone	-0.24
67-64-1	
Diacetone alcohol	1.03
123-42-2	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Contain and dispose of waste according to local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. TRANSPORT INFORMATION

DOT

UN/ID no. UN1210

Proper Shipping Name Printing Ink Related Material

Hazard Class 3
Packing Group ||

ICAO / IATA / IMDG / IMO

UN/ID no. UN1210

Proper Shipping Name Printing Ink Related Material

Hazard Class 3
Packing Group ||

15. REGULATORY INFORMATION

International Inventories

All components are listed on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

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
Toluene	108-88-3	30 - 60	1.0

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

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Component	CAS-No	Weight %
Toluene	108-88-3	30 - 60

U.S. State Regulations

Component	Massachusetts Right To Know
Toluene 108-88-3	X
Acetone 67-64-1	Х
Diacetone alcohol 123-42-2	х

Component	Minnesota Right To Know
Toluene 108-88-3	X
Acetone 67-64-1	X
Diacetone alcohol 123-42-2	X

Component	New Jersey Right To Know
Toluene 108-88-3	X
Acetone 67-64-1	X
Diacetone alcohol 123-42-2	X

Component	Pennsylvania Right To Know
Toluene 108-88-3	X
Acetone 67-64-1	X
Diacetone alcohol 123-42-2	X

California Prop. 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Toproductive Haim		
Component	California Prop. 65	
Toluene	Developmental	
	Female Reproductive	

Canada

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Component	NPRI - National Pollutant Release Inventory
Toluene	Part 1, Group A Substance
108-88-3	Part 5, Individual Substances Part 4 Substance as set out in
	Section 65 of the List of Toxic Substances in Schedule 1 of the
	Canadian Environmental Protection Act, 1999
Acetone	Part 4 Substance as set out in Section 65 of the List of Toxic
67-64-1	Substances in Schedule 1 of the Canadian Environmental
	Protection Act, 1999
Diacetone alcohol	Part 4 Substance as set out in Section 65 of the List of Toxic
123-42-2	Substances in Schedule 1 of the Canadian Environmental
	Protection Act, 1999

16. OTHER INFORMATION

HMIS:HealthFlammabilityReactivityPersonal Protection2 *30X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program) Known - Known Carcinogen

Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)

X - Present

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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