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Scientific**



MSDS

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PLEASE ROUTE TO COMPANY SAFETY OFFICER.**

UNIV OF WI WHITEWATER
UNIV HEALTH & COUNSELING
710 WEST STARIN ROAD
GERMAINE OLM ROOM 1026

WHITEWATER WI 53190

dena quick stain

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**** MATERIAL SAFETY DATA SHEET ****

Wright Stain 1-Step
9201

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

SDS Name: Wright Stain 1-Step

atalog Numbers: 23123745, 23123919, 23206441, 23250466, 55960, 55966, CS432

ynonyms: None.

Company Identification: Fisher Diagnostics
 Fisher Scientific Company LLC
 8365 Valley Pike
 Middletown, VA 22645-0307

For information, call: 800-528-0494
 Emergency Number: 800-524-0294
 For CHEMTREC assistance, call: 800-424-9300
 For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

| CAS# | Chemical Name | % | EINECS# |
|---------------|----------------------------------|-------|-----------|
| Not available | Tris Hydroxymethyl Amino Methane | 1.4 | unlisted |
| 56-81-5 | Glycerine | ~8.0 | 200-289-5 |
| 67-56-1 | Methanol | ~93.0 | 200-659-6 |
| 110-16-7 | Maleic Acid | <1.0 | 203-742-5 |
| 506-59-2 | Dimethylamine Hydrochloride | <1.0 | 208-046-5 |
| 660-68-4 | Diethylamine Hydrochloride | <1.0 | 211-541-9 |
| 1310-58-3 | Potassium Hydroxide | ~0.1 | 215-181-3 |
| 68988-92-1 | Wright Stain | ~0.5 | 273-541-5 |

Hazard Symbols: None Listed.
 Risk Phrases: 10

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: dark blue liquid. Flash Point: 54 deg F.
 Danger! Flammable liquid and vapor. May cause skin irritation.
 Harmful if inhaled. May cause central nervous system depression. May be absorbed through intact skin. Poison! May cause fetal effects based upon animal studies. May cause adverse reproductive effects based upon animal studies. May cause respiratory and digestive tract irritation. Cannot be made non-poisonous. May cause severe eye irritation and possible injury. May cause liver and kidney damage. May be fatal or cause blindness if swallowed.
 Target Organs: Kidneys, central nervous system, liver, eyes.

Potential Health Effects

Eye: Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. Vapors may cause eye irritation. May cause painful sensitization to light.

Skin: May cause skin irritation. May be absorbed through the skin in harmful amounts.

Ingestion: May be fatal or cause blindness if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause liver and kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation. May cause liver and kidney damage. May cause visual impairment and possible permanent blindness. May cause effects similar to those described for ingestion. May cause narcotic effects in high concentration. May cause drowsiness, unconsciousness, and central nervous system depression.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Ethanol may inhibit methanol metabolism.

Antidote: Ethanol may inhibit methanol metabolism.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not available.
 Flash Point: 54 deg F (12.22 deg C)
 Explosion Limits, lower: 6.0
 Explosion Limits, upper: 36.0
 NFPA Rating: (estimated) Health: 1; Flammability: 3; Instability: 0

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use only under a chemical fume hood.

Exposure Limits

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|----------------------------------|-------------------------------|--------------------------------------|--|
| Tris Hydroxymethyl Amino Methane | none listed | none listed | none listed |
| Glycerine | 10 mg/m3 | no established RELS - see Appendix D | 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) |
| Methanol | 200 ppm; 250 ppm STEL; skin - | 200 ppm TWA; 260 mg/m3 TWA 6000 | 200 ppm TWA; 260 mg/m3 TWA |

| | potential for cutaneous absorption | ppm IDLH | |
|-----------------------------|------------------------------------|-------------|-------------|
| Maleic Acid | none listed | none listed | none listed |
| Dimethylamine Hydrochloride | none listed | none listed | none listed |
| Diethylamine Hydrochloride | none listed | none listed | none listed |
| Potassium Hydroxide | C 2 mg/m3 | none listed | none listed |
| Wright Stain | none listed | none listed | none listed |

OSHA Vacated PELs:
 Tris Hydroxymethyl Amino Methane:
 No OSHA Vacated PELs are listed for this chemical.
 Glycerine:
 total dust: 10 mg/m3 TWA; respirable fraction: 5 mg/m3 TWA
 Methanol:
 200 ppm TWA; 260 mg/m3 TWA; 250 ppm STEL; 325 mg/m3 STEL
 Maleic Acid:
 No OSHA Vacated PELs are listed for this chemical.
 Dimethylamine Hydrochloride:
 No OSHA Vacated PELs are listed for this chemical.
 Diethylamine Hydrochloride:
 No OSHA vacated PELs are listed for this chemical.
 Potassium Hydroxide:
 C 2 mg/m3
 Wright Stain:
 No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:
 Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
 Skin:
 Wear appropriate protective gloves to prevent skin exposure.
 Clothing:
 Wear appropriate protective clothing to prevent skin exposure.
 Respirators:
 Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Liquid
 Appearance: dark blue
 Odor: Alcoholic
 pH: Not available.
 Vapor Pressure: 96 mm Hg
 Vapor Density: 1.1
 Evaporation Rate: Not available.
 Viscosity: Not available.
 Boiling Point: 66 deg C
 Freezing/Melting Point: -98 deg C
 Decomposition Temperature:
 Solubility in water: Infinite
 Specific Gravity/Density: 0.9
 Molecular Formula:
 Molecular Weight:

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
 Stable under normal temperatures and pressures.
 Conditions to Avoid:
 Incompatible materials, ignition sources, excess heat.
 Incompatibilities with Other Materials:
 The incompatibilities associated with potassium hydroxide include: acids, bromoform, chlorine dioxide, cyclopentadiene, germanium, hyponitrous acid, maleic anhydride, nitroalkanes, nitrobenzene, nitrogen trichloride, 2-nitrophenol, potassium peroxodisulfate, sugars, 2,2,3,3-tetrafluoropropanol, tetrahydrofuran, thorium dicarbide, 2,4,6-trinitrotoluene, acetic acid, acrolein, acrylonitrile, chlorine+hydrogen peroxide, chloroform+methanol, phosphorus, trichloroethylene, tetrachloroethane. It reacts violently with o-nitrophenol. Reactions with 1,2-dichloroethylene produce chloroacetylene which is explosive and spontaneously flammable in

air. Potassium hydroxide generates large amounts of heat when in contact with water and may steam and splatter. Potassium hydroxide is corrosive to metals such as aluminum, tin, and zinc to cause formation of flammable hydrogen gas. The incompatibilities associated with glycerol include: acetic anhydride, calcium hypochlorite, chromium oxide, fluorine+lead oxide, perchloric acid+lead oxide, and potassium permanganate. Wright's stain is incompatible with strong oxidizing agents. The incompatibilities associated with methanol include: oxidants, phosphorus (III) oxide, dichloromethane, acetyl bromide, active metals, alkyl aluminum salts, beryllium dihydride, carbon tetrachloride+metals, chloroform+heat, chloroform+sodium hydroxide, cyanuric chloride, diethyl zinc, potassium tertbutoxide, chromic anhydride, lead perchlorate, perchloric acid, and chloroform+potassium hydroxide.
 Hazardous Decomposition Products:
 Oxides of nitrogen, oxides of carbon.
 Hazardous Polymerization: Will not occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
 CAS# 0-01-1 unlisted.
 CAS# 56-81-5: MA800000
 CAS# 67-56-1: PC140000
 CAS# 110-16-7: OM9625000
 CAS# 506-59-2: IQ0220000
 CAS# 660-68-4: IA3084000
 CAS# 1310-58-3: TR2100000
 CAS# 68988-92-1 unlisted.
 LD50/LC50:
 Not available.
 CAS# 56-81-5: Draize test, rabbit, eye: 126 mg Mild; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Inhalation, rat: LC50 = >570 mg/m3/1H; Oral, mouse: LD50 = 4090 mg/kg; Oral, rabbit: LD50 = 27 gm/kg; Oral, rat: LD50 = 12600 mg/kg; Skin, rabbit: LD50 = >10 gm/kg.
 CAS# 67-56-1: Draize test, rabbit, eye: 40 mg Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 20 mg/24H Moderate; Inhalation, rat: LC50 = 64000 ppm/4H; Oral, mouse: LD50 = 7300 mg/kg; Oral, rabbit: LD50 = 14200 mg/kg; Oral, rat: LD50 = 5628 mg/kg; Skin, rabbit: LD50 = 15800 mg/kg.
 CAS# 110-16-7: Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, eye: 1 1/2M Severe; Draize test, rabbit, skin: 500 mg/24H Mild; Inhalation, rat: LC50 = >720 mg/m3/1H; Oral, mouse: LD50 = 2400 mg/kg; Oral, rat: LD50 = 708 mg/kg; Skin, rabbit: LD50 = 1560 mg/kg.
 CAS# 506-59-2: Oral, mouse: LD50 = 8100 mg/kg; Oral, rabbit: LD50 = 1600 mg/kg; Oral, rat: LD50 = 1070 mg/kg.
 CAS# 660-68-4: Oral, mouse: LD50 = 4860 mg/kg; Oral, rat: LD50 = 9900 mg/kg.
 CAS# 1310-58-3: Draize test, rabbit, skin: 50 mg/24H Severe; Oral, rat: LD50 = 273 mg/kg.
 CAS# 68988-92-1.

Carcinogenicity:
 Tris Hydroxymethyl Amino Methane -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Glycerine -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Methanol -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Maleic Acid -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Dimethylamine Hydrochloride -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Diethylamine Hydrochloride -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Potassium Hydroxide -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Wright Stain -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Epidemiology:
 Methanol has been shown to produce fetotoxicity in the embryo or fetus. Specific developmental abnormalities include the urogenital, musculoskeletal and cardiovascular systems.
 Teratogenicity:
 No information available.
 Reproductive Effects:
 Methanol has been shown to produce reproductive effects in laboratory animals.
 Neurotoxicity:
 No information available.
 Mutagenicity:
 Methanol has been shown to produce DNA damage in laboratory animals.
 Other Studies:
 The hazards associated with methanol may be seen in this product. See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

DATE: 10/29/02 ACCT: 888235004
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Ecotoxicity:
 Fish: Rainbow trout: LC50 = 13-68 mg/L; 96 Hr.; 12 degrees CFish:
 Fathead Minnow: LC50 = 29400 mg/L; 96 Hr.; 25 degrees C, pH 7.63Fish:
 Rainbow trout: LC50 = 8000 mg/L; 48 Hr.; UnspecifiedBacteria:
 Phytobacterium phosphoreum: EC50 = 51,000-320,000 mg/L; 30 minutes;
 Microtox test

Other
 For more information, see "HANDBOOK OF ENVIRONMENTAL FATE AND EXPOSURE DATA."

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

emical waste generators must determine whether a discarded chemical classified as a hazardous waste.
 EPA guidelines for the classification determination are listed in CFR Parts 261.3. Additionally, waste generators must consult state d local hazardous waste regulations to ensure complete and accurate assification.

RA P-Series: None listed.
 RA U-Series: CAS# 67-56-1: waste number U154;
 (mitable waste).

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT

Shipping Name: METHANOL
 Hazard Class: 3
 UN Number: UN1230
 Packing Group: II

Canadian TDG

Shipping Name: METHANOL
 Hazard Class: 0.3(6.1)
 UN Number: UN1230

Other Information: FLASHPOINT 12C

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL TSCA

CAS# 0-01-1 is not listed on the TSCA inventory. It is for research and development use only.
 CAS# 56-81-5 is listed on the TSCA inventory.
 CAS# 67-56-1 is listed on the TSCA inventory.
 CAS# 110-16-7 is listed on the TSCA inventory.
 CAS# 506-59-2 is listed on the TSCA inventory.
 CAS# 660-68-4 is listed on the TSCA inventory.
 CAS# 1310-58-3 is listed on the TSCA inventory.
 CAS# 68988-92-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)
 CAS# 110-16-7: final RQ = 5000 pounds (2270 kg)
 CAS# 1310-58-3: final RQ = 1000 pounds (454 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 56-81-5: chronic.
 CAS # 67-56-1: acute, flammable.
 CAS # 110-16-7: acute.
 CAS # 506-59-2: acute.
 CAS # 1310-58-3: acute, reactive.
 CAS # 68988-92-1: reactive.

Section 313

This material contains Methanol (CAS# 67-56-1, 93 08), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

CAS# 67-56-1 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 110-16-7 is listed as a Hazardous Substance under the CWA.
 CAS# 1310-58-3 is listed as a Hazardous Substance under the CWA.
 None of the chemicals in this product are listed as Priority Pollutants under the CWA.
 None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

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Tris Hydroxymethyl Amino Methane is not present on state lists from CA, PA, MN, MA, FL, or NJ.
 Glycerine can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.
 Methanol can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

Maleic Acid can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.
 Dimethylamine Hydrochloride is not present on state lists from CA, PA, MN, MA, FL, or NJ.
 Diethylamine Hydrochloride is not present on state lists from CA, PA, MN, MA, FL, or NJ.

Potassium Hydroxide can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

Wright Stain is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:
 None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

R 10 Flammable.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

WGK (Water Danger/Protection)

CAS# 0-01-1: No information available.

CAS# 56-81-5: 0

CAS# 67-56-1: 1

CAS# 110-16-7: 1

CAS# 506-59-2: 1

CAS# 660-68-4: 1

CAS# 1310-58-3: 1

CAS# 68988-92-1: No information available.

United Kingdom Occupational Exposure Limits

CAS# 56-81-5: OES-United Kingdom, TWA mist: 10 mg/m³ TWA

CAS# 67-56-1: OES-United Kingdom, TWA 200 ppm TWA; 266 mg/m³ TWA

CAS# 67-56-1: OES-United Kingdom, STEL 250 ppm STEL; 333 mg/m³ STEL

CAS# 67-56-1: OES-United Kingdom, STEL 250 ppm STEL; 333 mg/m³ STEL

CAS# 1310-58-3: OES-United Kingdom, STEL 2 mg/m³ STEL

CAS# 1310-58-3: OES-United Kingdom, STEL 2 mg/m³ STEL

Canada

CAS# 56-81-5 is listed on Canada's DSL List.

CAS# 67-56-1 is listed on Canada's DSL List.

CAS# 110-16-7 is listed on Canada's DSL List.

CAS# 506-59-2 is listed on Canada's DSL List.

CAS# 660-68-4 is listed on Canada's DSL List.

CAS# 1310-58-3 is listed on Canada's DSL List.

CAS# 68988-92-1 is listed on Canada's DSL List.

This product has a WHMIS classification of B2, D1A, D2B.

CAS# 0-01-1 is not listed on Canada's Ingredient Disclosure List.

CAS# 56-81-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

CAS# 110-16-7 is listed on Canada's Ingredient Disclosure List.

CAS# 506-59-2 is not listed on Canada's Ingredient Disclosure List.

CAS# 660-68-4 is not listed on Canada's Ingredient Disclosure List.

CAS# 1310-58-3 is listed on Canada's Ingredient Disclosure List.

CAS# 68988-92-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 56-81-5: OEL-AUSTRALIA:TWA 10 mg/m³

OEL-BELGIUM:TWA 10 mg/m³

OEL-FINLAND:TWA 20 mg/m³

OEL-FRANCE:TWA 10 mg/m³

OEL-THE NETHERLANDS:TWA 10 mg/m³

OEL-UNITED KINGDOM:TWA 10 mg/m³

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

CAS# 67-56-1: OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m³):Skin

CAS# 1310-58-3: OEL-AUSTRALIA:TWA 2 mg/m³

OEL-BELGIUM:STEL 2 mg/m³

OEL-DENMARK:TWA 2 mg/m³

OEL-FINLAND:TWA 2 mg/m³

OEL-FRANCE:STEL 2 mg/m³

OEL-JAPAN:STEL 2 mg/m³

OEL-THE NETHERLANDS:TWA 2 mg/m³

OEL-SWITZERLAND:TWA 2 mg/m³

OEL-UNITED KINGDOM:TWA 2 mg/m³;STEL 2 mg/m³

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/21/1999 Revision #6 Date: 12/20/2001

The information above is believed to be accurate and represents the best

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information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.
