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WAVE SYRINGE WASH SOLUTION MSDS

MATERIAL SAFETY DATA SHEET

Transgenomic, Inc.
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Emergency Phone(USA): 800-424-9300 (CHEMTREC 24hr)
Emergency Phone (UK/Europe): +44(0)-870-190-6777 (CARECHEM24)

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 553410, 553411
NAME: WAVE SYRINGE WASH SOLUTION

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#: 75-05-8 ACETONITRILE, 4-5%
MF: CH₃CN MW: 41.05
SYNONYMS: Cyanomethane; "Ethanenitrile; Ethyl Nitrile; Methanecarbonitrile; Methyl Cyanide
EC NUMBER (EINECS): 200-835-2 (100%)
EC INDEX NUMBER: 608-001-00-3 (100%)

CAS#: 7732-18-2 DEIONIZED WATER, 95-96%

SECTION 3. HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS: IRRITANT
ROUTES OF ENTRY: INHALATION, ABSORPTION AND INGESTION

DATA FOR **100%** Acetonitrile (*This solution is only 4-5%*):

NFPA Ratings (SCALE 0-4): HEALTH=2 FIRE=3 REACTIVITY=0
MAJOR HEALTH HAZARDS: Respiratory tract irritation, eye irritation and blood damage.

POTENTIAL HEALTH EFFECTS:

-INHALATION:

Short Term Exposure: Irritation, nausea, stomach pain, loss of voice, chest and stomach pain, wheezing, headache, symptoms of drunkenness, disorientation, suffocation, convulsions and coma.

Long Term Exposure: Lung damage.



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- SKIN CONTACT: Same effects reported in short term inhalation.
- EYE CONTACT: Irritation and tearing.
- INGESTION: Same effects reported in short term inhalation.
- CARCINOGEN STATUS:
 - OSHA: No.
 - NTP: No.
 - IARC: No.

SECTION 4. FIRST-AID MEASURES

SEEK MEDICAL ASSISTANCE FOR ANY OVEREXPOSURE.

SKIN: Wash thoroughly with soap and water.

EYES: Immediately flush thoroughly with water for at least 15 minutes.

INGESTION: Contact local Poison Control Center or physician immediately. Never give anything by mouth to an unconscious person.

ANTIDOTE: Amyl Nitrite, inhalation; Sodium Nitrite, intravenous; Sodium Thiosulfate, infusion; oxygen.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Alcohol resistant foam, carbon dioxide, regular dry chemical or water.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Water may be ineffective.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Hazardous polymerization will not occur.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Evacuate all unnecessary personnel. Wear a respirator, chemical safety goggles, rubber boots and rubber gloves. Turn off all sources of ignition. Absorb with sand or vermiculite and place in a closed container. Wash spill site with soapy water.

SECTION 7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances. Store in a cool dry place.



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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMIT: For **100%** Acetonitrile (*This solution is only 4-5%*):
40ppm OSHA TWA

60ppm OSHA STEL
40ppm ACGIH TWA
60ppm ACGIH STEL
20ppm NIOSH recommended TWA 10 hours
40ppm UK OES TWA
60ppm UK OES STEL

MECHANICAL EXHAUST REQUIRED

CHEMICAL SAFETY GOGGLES.

NIOSH/MSHA-APPROVED RESPIRATOR.

SAFETY SHOWER AND EYE BATH.

COMPATIBLE CHEMICAL-RESISTANT GLOVES (RUBBER).

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

KEEP TIGHTLY CLOSED.

IRRITANT.

STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless liquid.

ODOR: Slightly sweet.

BOILING POINT: No Data.

WATER SOLUBILITY: Water Soluble.

pH: 7.0

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition.

Minimize contact with material. Avoid inhalation. Keep out of water supplies and sewers.

INCOMPATIBILITIES: Acids, metals, bases, oxidizing materials, combustible materials and reducing agents.



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HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide and oxides of nitrogen and ammonia, and hydrogen cyanide gas.

SECTION 11. TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

FOR 100% ACETONITRILE (*This solution is only 4-5%*):

CARCINOGEN STATUS: ACGIH: A4 –Not classifiable as a Human Carcinogen.

LOCAL EFFECTS: Irritant by inhalation and eye.

ACUTE TOXICITY LEVEL:

MODERATELY TOXIC: Dermal absorption and ingestion.

SLIGHTLY TOXIC: Inhalation.

TARGET ORGAN: Blood.

HEALTH EFFECTS:

INHALATION: Inhalation of 500ppm for a short duration may cause irritation of the nose and throat. Humans exposed to 160ppm for 4 hours experienced delayed symptoms of slight flushing of the face and slight bronchial tightness. A burning sensation, wheezing and laryngitis may also occur.

SKIN CONTACT: Contact may cause irritation. Skin absorption may occur resulting in systemic toxicity as detailed in inhalation above. Repeated or prolonged exposure may cause dermatitis.

EYE CONTACT: Vapors and liquid may cause irritation and tearing. Repeated or prolonged exposure to irritants may cause conjunctivitis.

INGESTION: Ingestion of sufficient amounts may cause systemic toxicity as detailed in inhalation. Reproductive effects have been reported in animals.

SECTION 12. ECOLOGICAL INFORMATION

DATA NOT YET AVAILABLE.



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SECTION 13. DISPOSAL CONSIDERATIONS

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number: U003. Dispose in accordance with all applicable regulations.

SECTION 14. TRANSPORTATION INFORMATION

For 100% Acetonitrile (This solution is 4-5% Acetonitrile)

U.S. DOT 49 CFR 172.101

UN1648

Label: ACETONITRILE

Hazard Class or Division: 3

Packing Group: II

LAND TRANSPORT:

Label: ACETONITRILE

Item Number: 3(b)

Warning Sign/Label: 3

Hazard ID Number: 3

AIR TRANSPORT:

IATA/ICAO Class: 3

Packaging Group: II

Label: ACETONITRILE

MARITIME TRANSPORT:

Label: ACETONITRILE

IMDG Class: 3

Packaging Group: II

EmS No.: 3-02

MFAG Table No.: 215

SECTION 15. REGULATORY INFORMATION

For 100% Acetonitrile (*This solution is only 4-5%*):

TSCA INVENTORY STATUS: Yes.

TSCA 12 (b) EXPORT NOTIFICATION: Not listed.

CERCLA SECTION 103 (40CFR302.4): Yes.

ACETONITRILE: 5000 lbs RQ.

SARA SECTION 302 (40CFR355.30): No.

SARA SECTION 304 (40CFR355.40): No.

SARA SECTION 313 (40CFR372.65): Yes (Acetonitrile).



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SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ACUTE: Yes.

CHRONIC: No.

FIRE: Yes.

REACTIVE: No.

SUDDEN RELEASE: No.

OSHA PROCESS SAFETY (29CFR1910.119): No.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: No.

EUROPEAN REGULATIONS:

FOR 100% ACETONITRILE:

EC NUMBER (EINECS): 200-835-2.

EC RISK AND SAFETY PHRASES:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

S ½ Keep locked-up and out of reach of children.

S 16 Keep away from sources of ignition –no smoking.

S 27 Take off immediately all contaminated clothing.

S 45 In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).

CONCENTRATION LIMITS:

3%>=C<20%

Xn

R 20/21/22

GERMAN REGULATIONS:

FOR 100% ACETONITRILE:

Water Hazard Class (WGK): 2

SECTION 16. OTHER INFORMATION

The above information is believed to be correct and shall be used only as a guide. The information may be inclusive. Transgenomic, Inc. shall not be held liable for any damage resulting from handling or from contact with the above material.



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