Aniline

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : **Aniline**

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: **S25179**

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:

Toxic
Acute toxicity (oral, dermal, inhalation), category 3

Corrosive
Serious eye damage, category 1

Health hazard
Germ cell mutagenicity, category 2
Carcinogenicity, category 2
Specific target organ toxicity following repeated exposure, category 1

Environmentally Damaging
Acute hazards to the aquatic environment, category 1

Irritant
Skin sensitization, category 1

Acute Toxicity 3 (oral, dermal, inhalation)
Skin Sensitization 1
Eye Damage 1
Germ Cell Mutagenicity 2
Carcinogenicity 2
STOT RE 1
Aquatic Acute 1

Signal word :Danger

Hazard statements:

Toxic if swallowed
Toxic in contact with skin
May cause an allergic skin reaction
Causes serious eye damage
Toxic if inhaled
Causes damage to organs through prolonged or repeated exposure
Suspected of causing genetic defects
Suspected of causing cancer
Very toxic to aquatic life

Precautionary statements:

If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Avoid breathing dust/fume/gas/mist/vapours/spray
Wear protective gloves/protective clothing/eye protection/face protection
Do not get in eyes, on skin, or on clothing
Wash ... thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Remove/Take off immediately all contaminated clothing
Wash contaminated clothing before reuse
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Gently wash with plenty of soap and water
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
If skin irritation or a rash occurs: Get medical advice/attention
Immediately call a POISON CENTER or doctor/physician
Call a POISON CENTER or doctor/physician
Rinse mouth
Specific measures (see ... on this label)
Specific treatment (see ... on this label)
Store locked up
Dispose of contents/container to ...

Other Non-GHS Classification:

WHMIS

E 

D1A 

B3 

D2B 

D1B 

NFPA/HMIS

NFPA SCALE (0-4)

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 62-53-3	Aniline	>95 %
		Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Immediately consult POISON CONTROL for all routes of entry.If breathing difficult, give oxygen.Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position.Seek medical attention immediately.

After skin contact: Immediately consult POISON CONTROL for all routes of entry.Rinse thoroughly. Rinse/flush exposed skin gently using water for at least 30 minutes. Wash affected area with soap and water immediately.

After eye contact: Immediately consult POISON CONTROL for all routes of entry.Protect unexposed eye. Remove contact lens(es) if able to do so during rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes. Seek immediate medical attention.

After swallowing: Immediately consult POISON CONTROL for all routes of entry.Rinse mouth thoroughly. Do not induce vomiting. Seek immediate medical attention.Have conscious exposed individual drink sips of water; do not give water to unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea,Headache, Shortness of breath.Vomiting. Diarrhea. Central Nervous System (CNS) effects. Allergic (skin) reaction;Danger of serious damage to heath with prolonged exposure.Damage may occur to liver, kidney, spleen, bladder, eyes, skin, central nervous system, blood, cardiovascular system.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.Notes to Physician: treat patient symptomatically.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Water Spray. Dry chemicals. Alcohol-resistant foam. Carbon dioxide

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.Combustible material, may explode when heated. Keep away from heat and sources of ignition.

Advice for firefighters:

Protective equipment: Wear protective clothing and equipment. Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Avoid contact with eyes, skin, and clothing. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.Keep away from ignition sources. Protect from heat.Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into the environment.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures.Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Prevent formation of aerosols. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan.Use only in well ventilated areas.Avoid splashes or spray in enclosed areas.Avoid open flames, heat sources, or hot surfaces.Do not breathe vapor or aerosols.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents.Store in cool, dry conditions in well sealed containers. Keep container tightly sealed.Protect from sunlight

SECTION 8 : Exposure controls/personal protection




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Control Parameters:	62-53-3, Aniline, 5 ppm 19 mg/m3 62-53-3, Aniline, ACGIH TLV TWA: 7.6mg/m3 62-53-3, Aniline, ACGIH TLV Skin: 2 ppm, 62-53-3, Aniline, OSHA PEL TWA: 8 mg/m3 62-53-3, Aniline, OSHA PEL Skin: 5 ppm
Appropriate Engineering controls:	Use under a fume hood. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Respiratory protection:	Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. Normal ventilation while handling under fume hood usually is adequate
Protection of skin:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled.Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye protection:	Safety glasses with side shields or goggles.Face shield
General hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.Wear protective clothing and equipment specified

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Liquid, light yellow	**Explosion limit lower**: **Explosion limit upper**:	1.3% 11%
Odor:	Rotten-egg like	**Vapor pressure**:	0.5 mmHg @ 20C
Odor threshold:	Not determined	**Vapor density**:	4.4 mPa.s at 20C
pH-value:	8.8 at 36 g/l at 20 °C (68 °F)	**Relative density**:	1.021
Melting/Freezing point:	-6.2C	**Solubilities**:	Slightly soluble in water
Boiling point/Boiling range:	181-185C	**Partition coefficient (n-octanol/water)**:	Not determined
Flash point (closed cup):	76 C	**Auto/Self-ignition temperature**:	540 C
Evaporation rate:	Butyl Acetate = 1.0	**Decomposition temperature**:	190 C
Flammability (solid,gaseous):	Not determined	**Viscosity**:	a. Kinematic:Not determined b. Dynamic: Not determined
Density: Not determined			

SECTION 10 : Stability and reactivity

Reactivity:
Chemical stability: No decomposition if used and stored according to specifications.Light sensitive material; store away from light source.
Possible hazardous reactions:
Conditions to avoid: Store away from oxidizing agents, strong acids or bases.Heat. Sparks. Flames
Incompatible materials: Strong acids.Strong bases.Strong oxidizers
Hazardous decomposition products: Nitrogen oxides (NOx). Carbon oxides (CO, CO2).

SECTION 11 : Toxicological information

Acute Toxicity:		
Oral:	250 mg/kg	LD50 Oral - rat
Dermal:	820 mg/kg	LD50 Dermal - rabbit
Inhalation:	4 h - 248 ppm	LC50 Inhalation - mouse
Chronic Toxicity: No additional information.		
Corrosion Irritation:		
Ocular:	Section 2	Classified as serious eye damage
Sensitization:		Classified as skin sensitizer.
Single Target Organ (STOT):		Organs where damage may occur are noted in Section 4
Numerical Measures:		No additional information.
Carcinogenicity:		IARC : Group 3 ACGIH: A3 (proven for animal)
Mutagenicity:		No additional information.
Reproductive Toxicity:		No additional information.

SECTION 12 : Ecological information

Ecotoxicity

Fish: LC50 (96h) Oncorhynchus mykiss: 10.6 mg/l

Persistence and degradability: Readily degradable in the environment.
Bioaccumulative potential: Not prone to bioaccumulate
Mobility in soil: Aqueous solution has high mobility in soil.
Other adverse effects: Release of this substance to the environment should be avoided.

SECTION 13 : Disposal considerations

Waste disposal recommendations:

RCRA Waste Code: U012. Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate

some amount of this product.

SECTION 14 : Transport information

UN-Number

1547

UN proper shipping name

Aniline

Transport hazard class(es)

Class:
6.1 Toxic substances

Packing group:II
Environmental hazard:Marine Pollutant
Transport in bulk:
Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic, Fire

SARA Section 313 (Specific toxic chemical listings):

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RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

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Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:
IMDG: International Maritime Code for Dangerous Goods
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)

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