

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.11.2014

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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 restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific, Inc
9 Barnhart Drive, Hanover, PA 17331
(717) 632-1291

Supplier Details:

Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064
(724)517-1954

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

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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



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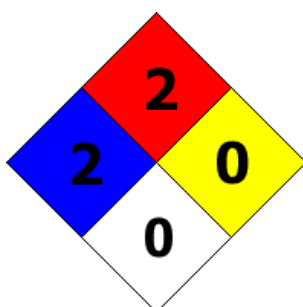
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NFPA/HMIS



NFPA SCALE (0-4)

Health	3
Flammability	2
Physical Hazard	0
Personal Protection	X

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 health 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:

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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.

Unsuitable extinguishing agents: None

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: None

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 at 20°C:	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 at 20°C:	Not determined		

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SECTION 10: Stability and reactivity

Reactivity: None

Chemical stability:

No decomposition if used and stored according to specifications. Light sensitive material; store away from light source.

Possible hazardous reactions: None

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.

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:

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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

US DOT

UN Number:

ADR, ADN, DOT, IMDG, IATA

1547

Limited Quantity Exception:

None

Bulk:

RQ (if applicable): None

Proper shipping Name: Aniline.

Hazard Class: 6

Packing Group: II.

Marine Pollutant (if applicable): No additional information.

Comments: None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: Aniline.

Hazard Class: 6

Packing Group: II.

Marine Pollutant (if applicable): No additional information.

Comments: None



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):

62-53-3 Aniline.

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

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None of the ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

62-53-3 Aniline.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are 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: None

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).

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HMIS Hazardous Materials Identification System (USA).

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).

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