



SAFETY DATA SHEET

ANILINE

Version: 1.1

Revision Date: 03/31/2015

Print Date: 05/27/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ANILINE

Product Use Description: Chemical intermediate

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department
(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	colourless
Odour	characteristic

GHS Classification

Acute toxicity (Oral) : Category 3
Acute toxicity (Inhalation) : Category 2
Acute toxicity (Dermal) : Category 3
Serious eye damage : Category 1
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity : Category 2
Specific target organ toxicity - repeated exposure (Oral) : Category 1
Specific target organ toxicity - repeated exposure : Category 1

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(Inhalation)

Specific target organ toxicity - : Category 1

repeated exposure (Dermal)

Acute aquatic toxicity : Category 1

GHS Label element

Signal word : **Danger**

Hazard pictograms :



Hazard statements

: H301 + H311 Toxic if swallowed or in contact with skin
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H341 Suspected of causing genetic defects.
 H351 Suspected of causing cancer.
 H372 Causes damage to organs through prolonged or repeated exposure if swallowed.
 H372 Causes damage to organs through prolonged or repeated exposure in contact with skin.
 H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
 H400 Very toxic to aquatic life.

Other hazards

: None

Precautionary statements

: **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear eye protection/ face protection.
 P280 Wear protective gloves/ protective clothing.
 P281 Use personal protective equipment as required.
 P284 Wear respiratory protection.
Response:
 P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you



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feel unwell.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P361 Remove/ Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

IARC

Group 3: Not classifiable as to its carcinogenicity to humans
aniline 62-53-3

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
aniline	62-53-3	>= 90 - <= 100 %

SECTION 4. FIRST AID MEASURES

If inhaled

: Remove to fresh air.
Get medical attention immediately.

In case of skin contact

: Take off contaminated clothing and shoes immediately.
Wash off immediately with soap and plenty of water.
Use a mild soap if available.
Obtain medical attention.



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- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.
- If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Drink 1 or 2 glasses of water.
Get medical attention immediately.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : irritant effects
sensitising effects
mutagenic effects
carcinogenic effects
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Extinguishing media - large fires
Alcohol-resistant foam
(on small fires)
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : Water spray jet
- Specific hazards during firefighting : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to health.
- Specific extinguishing methods : Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus (EN 133)

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Remove all sources of ignition.
Ensure adequate ventilation.
Wear suitable protective equipment.



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- Environmental precautions : Do not allow contact with soil, surface or ground water.
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Large spills should be collected mechanically (remove by pumping) for disposal. In accordance with local and national regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin, eyes and clothing.
Wear suitable protective equipment.
Do not breathe vapours or spray mist.
Use only with adequate ventilation.
Keep container tightly closed.
Remove all sources of ignition.
Take precautionary measures against static discharges.
Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.
- Conditions for safe storage : Keep tightly closed in a dry, cool and well-ventilated place.
Keep away from heat and sources of ignition.
Protect from contamination.
- Materials to avoid : Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
aniline	62-53-3	TWA	2 ppm	ACGIH
		TWA	2 ppm 8 mg/m ³	OSHA P0
		TWA	5 ppm 19 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Component	CAS-No.	Control parameters	Sampling time	Sampling time	Permissible concentration	Basis
aniline	62-53-3	Aniline	Urine	End of		ACGIH -



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				shift		Biological Exposure Indices (BEI)
		Aniline	Released from hemoglobin in blood	End of shift		ACGIH - Biological Exposure Indices (BEI)
		p-Aminophenol	Urine	End of shift	50 mg/l	ACGIH - Biological Exposure Indices (BEI)

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection
Remarks : Impervious gloves

Eye protection : Face-shield

Skin and body protection : impervious clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colourless

Odor : characteristic

Odour Threshold : No data available

pH : Not applicable

Melting point/range : -6.3 °C

Boiling point/boiling range : 184 °C

Evaporation rate : No data available

Flash point : 70 °C
closed cup

Upper explosion limit : 25 %(V)

Lower explosion limit : 1.3 %(V)

Vapour pressure : No data available



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Relative vapour density : No data available

Relative density : 1.022

Density : No data available

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Contamination

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Carbon oxides
Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : LD50: 250 mg/kg
Species: Rat
Remarks: Toxic if swallowed.

Acute inhalation toxicity (Product) : LC50: 175 mg/l
Species: Mouse
Remarks: Toxic by inhalation.

Acute dermal toxicity (Product) : LD50: 1,400 mg/kg
Species: Rabbit
Remarks: Toxic in contact with skin.



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- Skin irritation
aniline (Component) : Species: Rabbit
Result: Mild skin irritation
- Eye irritation (Product) : Species: Rabbit
Result: Moderate eye irritation
Classification: Risk of serious damage to eyes.
- Sensitisation (Product) : Remarks: May cause sensitisation by skin contact.
- Repeated dose toxicity
(Product) : Species: Rat
Application Route: Oral
Exposure time: 730 days ()
- Aspiration toxicity (Product) : No aspiration toxicity classification

Toxicology Assessment

- CMR effects (Product) : Carcinogenicity:
Suspected of causing cancer.
Mutagenicity:
Suspected of causing genetic defects.
Reproductive toxicity:
Not classified due to lack of data.
- Further information
aniline (Component) : Components of the product cause formation of methaemoglobin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

- Toxicity to fish (Product) : LC50: 134 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
- (Product) : LC50: 8.2 mg/l
Exposure time: 168 h
Species: Oncorhynchus mykiss (rainbow trout)



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Toxicity to daphnia and other aquatic invertebrates
aniline (Component) : LC50: 0.65 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:
No data available

Mobility (Product) : Remarks:
No data available

Biodegradability (Product) : Remarks:
No data available

Further information on ecology

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic organisms.
(Product)
Results of PBT assessment (Product)
No data available
Additional ecological : Very toxic to aquatic organisms.
information (Product)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 1547
Description of the goods : Aniline
Class : 6.1
Packing group : II
Environmentally hazardous : yes



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IATA

UN number : 1547
Description of the goods : Aniline
Class : 6.1
Packing group : II
Environmentally hazardous : yes

IMDG

UN number : 1547
Description of the goods : ANILINE
()
Class : 6.1
Packing group : II
EmS Number 1 : F-A
EmS Number 2 : S-A
Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
aniline	62-53-3	5000	5000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
aniline	62-53-3	5000	5000

SARA 311/312 Hazards : Chronic Health Hazard
Acute Health Hazard

SARA 302 : The following components are subject to reporting levels
established by SARA Title III, Section 302:
aniline 62-53-3

SARA 313 : The following components are subject to reporting levels
established by SARA Title III, Section 313:
aniline 62-53-3

California Prop 65

WARNING! This product contains a chemical known to the



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State of California to cause cancer.

aniline

62-53-3

The components of this product are reported in the following inventories:

US.TSCA

On TSCA Inventory

DSL

All components of this product are on the Canadian DSL.

AICS

On the inventory, or in compliance with the inventory

NZIoC

On the inventory, or in compliance with the inventory

ENCS

On the inventory, or in compliance with the inventory

KECI

On the inventory, or in compliance with the inventory

PICCS

On the inventory, or in compliance with the inventory

IECSC

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

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.