SDS 1389 Aniline

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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name **ECP Limited**

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Product	Aniline				**Code**	1389
CAS#	**HSNO#**	**UN #**	**DG Class/es**	**Packing group #**	**Tracking?**	**Handlers Certificate?**
62-53-3	HSR000976	1547	6.1	II	No	6.1C

Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification

Flammable Liquids (Category D)
Acute toxicity, Oral (Category C)
Acute toxicity, Inhalation (Category B)
Acute toxicity, Dermal (Category C)
Skin irritation (Category A)
Serious eye damage (Category A)
Skin sensitisation (Category B)
Germ cell mutagenicity (Category B)
Carcinogenicity (Category B)
Aquatic toxicity (Acute or Chronic) (Category A)

2.2 GHS Label elements, including precautionary statements

Pictogram  Signal word **Danger**

Hazard statement(s)

H227 Combustible liquid.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
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.
H400 Very toxic to aquatic life.

Precautionary statement(s)

Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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 protective gloves/protective clothing/eye protection/face protection.
P284 Wear respiratory protection.
Response
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P330 Rinse mouth.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P361 Remove/Take off immediately all contaminated clothing.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391 Collect spillage.
Storage
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Disposal
P501 Dispose of contents/container to an approved waste disposal plant.
2.3 Other hazards
Rapidly absorbed through skin.

3. Composition/information on ingredients
Substance/Mixture: Substance
3.1 Substances
Hazardous components

Component	Classification	Concentration
Aniline		
	3.1 D; 6.1 C; 6.1 B; 6.1 C; 6.3 A; 8.3 A; 6.5 B; 6.6 B; 6.7 B; 9.1 A; H227, H301, H330, H311, H315, H318, H317, H341, H351, H400 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1	<=100%

4. First aid measures
4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Cyanosis, headache, vomiting, nausea, incoordination, fatigue, dizziness, drowsiness, confusion, weakness, unconsciousness, symptoms may be delayed.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
4.3 Indication of any immediate medical attention and special treatment needed No data available

5. Firefighting measures
5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
No data available
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
Use water spray to cool unopened containers.

6. Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage
7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle under inert gas. Protect from moisture. Light sensitive.
7.3 Specific end use(s)
No data available

8. Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits Table

Component	CAS No	Value	Control parameters	Basis
Aniline	62-53-3	TWA	2 ppm 7.6 mg/m^3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
		Skin absorption Confirmed Animal Carcinogen with Unknown Relevance to Humans		
		WES-TWA	1 ppm 4 mg/m^3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
		Carcinogen - suspected human carcinogen Skin absorption		

8.2 Exposure controls
Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Personal protective equipment
Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards.
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Splash contact
Material: Nature latex/chloroprene
Minimum layer thickness: 0.6 mm
Break through time: 90 min
Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards

9. Physical and chemical properties
9.1 Information on basic physical and chemical properties
a) Appearance
Form: liquid
b) Odour
No data available
c) Odour Threshold
No data available
d) pH
8.8 at 36 g/l at 20 °C
e) Melting point/freezing point

Melting point/range: -6 °C - lit.
f) Initial boiling point and boiling range
184 °C - lit.
g) Flash point
70 °C - closed cup
h) Evaporation rate
No data available
i) Flammability (solid, gas)
No data available
j) Upper/lower flammability or explosive limits
Upper explosion limit: 23 %(V)
Lower explosion limit: 1.3 %(V) k)
Vapour pressure
0.49 hPa at 20 °C 0.8 hPa at 20 °C
l) Vapour density
3.22 - (Air = 1.0)
m) Relative density
1.022 g/cm3 at 25 °C
n) Water solubility
Soluble
o) Partition coefficient: n-octanol/water
log Pow: 0.91
p) Auto-ignition temperature
No data available
q) Decomposition temperature
No data available
r) Viscosity
No data available

10. Stability and reactivity
10.1 Reactivity
No data available
10.2 Chemical stability
No data available
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat, flames and sparks.
10.5 Incompatible materials
Oxidizing agents, Iron and iron salts, Zinc
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions
Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products
No data available

11. Toxicological information
11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - 250 mg/kg
LC50 Inhalation - Mouse - 4 h - 248 ppm

LD50 Dermal - Rabbit - 836 mg/kg
Skin corrosion/irritation
Skin - Rabbit - No skin irritation
Serious eye damage/eye irritation
Eyes - Rabbit - Severe eye irritation
Respiratory or skin sensitisation
May cause sensitisation by skin contact.
Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects. In vitro tests showed mutagenic effects
Carcinogenicity
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure
Blood Aspiration hazard
No data available
Potential health effects
Inhalation
Toxic if inhaled. May cause respiratory tract irritation.
Ingestion
Toxic if swallowed.
Skin
Toxic if absorbed through skin. May cause skin irritation.
Eyes
Causes eye burns.
Signs and Symptoms of Exposure
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Cyanosis, Headache, Vomiting, Nausea, Incoordination., fatigue, Dizziness, Drowsiness, Confusion., Weakness, Unconsciousness, Symptoms may be delayed.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information
RTECS: BW6650000

12. Ecological information

12.1 Toxicity
Toxicity to fish
LC50 - Oncorhynchus mykiss (rainbow trout) - 10.6 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 80 - 380 mg/l - 48 h semi-static test
EC50 - Daphnia magna (Water flea) - 0.16 mg/l - 48 h
Toxicity to algae
EC50 - SELENASTRUM - 19 mg/l - 72 h
12.2 Persistence and degradability

Biodegradability
aerobic - Exposure time 30 d
Result: 90 % - Readily biodegradable.
Method: OECD Test Guideline 301D
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
No data available
12.6 Other adverse effects
Very toxic to aquatic life with long lasting effects.

13. Disposal considerations
13.1 Waste treatment methods
Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

14. Transport Information Table

		ADR/RID – European packaging certification	**IMDG International Maritime Dangerous Goods Code**	**IATA – DGR International Air Travel Association – Dangerous Goods Regulations**
14.1	**UN Number**	1547	1547	1547
14.2	**UN Proper Shipping name**	ANILINE	ANILINE	Aniline
14.3	**Transport Hazard Class**	6.1	6.1	6.1
14.4	**Packaging group**	II	II	II
14.5	**Environmental Hazards**	Yes	Yes	Yes
14.6	**Special precautions for user**	No data available.		

15. Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulatory information
HSNO Approval Code: HSR000976
HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006
Tracking Required: not required
Approved Handler Cert.: 6.1C

16. Disclaimer
The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and

any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event 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.

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