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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ANILINE		Product Use Laboratory use	
Chemical formula C ₆ H ₅ NH ₂		Product code AR-0154 ; AR-0954	Molar weight 93,13
Chemical name / Commercial name / Synonyms BENZENAMINE, HUILE D'ANILINE, PHENYLAMINE, AMINO BENZENE, AMINOPHEN, KYANOL, ANILINE OIL			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
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Emergency phone	CANUTEC: 613-996-6666	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 10/24/2019	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Liquides inflammables category 4</p> <p>Acute toxicity - Oral category 3</p> <p>Acute toxicity - Dermal category 3</p> <p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p> <p>Respiratory or skin sensitization - Skin sensitize category 1</p> <p>Germ cell mutagenicity category 2</p> <p>Carcinogenicity category 2</p> <p>Acute toxicity - Inhalation category 3</p> <p>Specific Target Organ Toxicity - Repeated exposure category 1</p>
Signal Word	<p>DANGER</p>
Hazards statements (H)	<p>H301 Toxic if swallowed.</p> <p>H311 Toxic in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H341 Suspected of causing genetic defects .</p> <p>H351 Suspected of causing cancer.</p> <p>H227 Combustible liquid.</p> <p>H331 Toxic if inhaled.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure.</p>
Precautionary statements (P)	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P261 Avoid breathing dust / fume / gas / mist / vapours / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do no eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p> <p>P403 Store in a well-ventilated place.</p>

	P311 P260 P314	Call a POISON CENTER or doctor/physician. Do not breathe dust / fume / gas / mist / vapours / spray. Get medical advice/attention if you feel unwell.
PICTOGRAMS		
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)	
	Health 3 Fire 2 Reactivity 0 Special danger	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Aniline	62-53-3	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Do NOT induce vomiting. If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Ignition conditions	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Do not use a jet of water.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO _x).
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10). Combustible liquid. Moderate fire hazard in the presence of heat or flame. Aniline can ignite spontaneously in the presence of several acids. Vapors may form flammable or explosive mixtures with air. In contact with alkali or alkaline-earth metals, aniline emits hydrogen (flammable gas). Violent reactions with the following products: strong oxidizing agents, acetic anhydride, strong bases, boron trichloride, fluorine, glycerin + nitrobenzene, hydrogen peroxide, nitric acid, nitromethane and trichloronitromethane (145 °C). Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up / Personal precautions, protective equipment	Evacuate personnel to safe areas. Cut off all sources of ignition. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. Avoid breathing vapours, mist or gas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not let product enter drains.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Light sensitive. Keep away from oxidizing materials and acids. Keep away from bases. Peut attaquer certains types de plastique ou métaux non-ferreux. Hygroscopic.
Methods of handling	Bottle in the glass only. Avoid contact with the skin, eyes and clothes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
ANILINE	62-53-3	VEMP	2 ppm 7.6 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Remarks	Skin (percutaneous)			
		TWA	2 ppm 7.6 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
	The substance can be easily absorbed through intact skin			
		TWA	2 ppm	Canada. British Columbia OEL
	Contributes significantly to overall dermal exposure.			

Data source	Sigma-Aldrich (Millipore Sigma)
Ventilation	Use fan.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Use safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Appearance	Jaune pâle.
Odour	Âcre.
Odour threshold	1.0ppm
pH	Solution aqueuse 0.2 M = pH 8.1.
Melting point / Freezing point	-6°C
Initial boiling point	184°C
Boiling range	181-185°C
Flash point	70°C
Evaporation rate	<1 (Butyl acetate = 1.0)%
Flammability	No
Lower flammable / Explosive limit	1.3%
Upper flammable / Explosive limit	11.0%
Vapour pressure	0.37 mmHg à 20 °C.
Vapour density	3.22 - (Air = 1.0)-
Relative density	1.022g/cm ³
Solubility	Modérément miscible avec l'eau (3%). Miscible avec l'alcool, le benzène, le chloroforme et la plupart des solvants organiques.
Partition coefficient water/n-octanol	log Pow: 0.91-
Auto-ignition temperature	630°C
Decomposition temperature	190°C
Viscosity	4.4 mPa.s at 20 °C/St

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions. Hygroscopic.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	This product browns quickly if exposed to air or light. Avoid moisture. Heat, flames and sparks.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), strong acids and bases, alkalis, aluminum, acetic anhydride, boron trichloride, rubber, leather, fluorine, alkali and alkaline earth metals, nitromethane, solutions containing iron salts, trichloronitromethane, zinc, heat, air and light.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO _x).

SECTION 11 - TOXICOLOGICAL INFORMATION

ANILINE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Severe irritation that may cause eye damage.
- Skin	Irritation and dermatitis. Intense exposure may cause sensitization of the skin as erythematous lesions.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnoea, headache, dizziness, confusion, weakness, hemolytic anemia, anoxemia and methaemoglobinaemia, tachycardia, cyanosis, drowsiness may progress to coma and death.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Gastrointestinal disorders, liver and kidney damage, cramps, diarrhea, headache, dizziness, confusion, weakness, hemolytic anemia, anoxemia and methoglobinemia, tachycardia, cyanosis, somnolence may progress to coma and death.
Chronic exposure effects / symptoms	Group 3: unclassifiable agent for its carcinogenicity (Group 3 IARC). Burning sensation, dermatitis, conjunctivitis, skin sensitization, nervous disorders, chest pain, cough, dyspnoea, laryngitis, headache, dizziness, confusion, irritability, drowsiness, hemolytic anemia, anorexia, weight loss and loss of appetite, nausea and vomiting. NOTE: Chronic absorption may cause the formation of methemoglobins which in sufficient concentration causes cyanosis (insufficient oxygenation of the blood). Absorption into the body leads to the formation of methemoglobin which in concentration insufficient causes cyanosis. It may appear after 2 to 4 hours or more. Cyanosis, Migraine, Vomiting, Nausea, Incoordination, Fatigue, Dizziness, Somnolence, Disorientation, Weakness, Loss of consciousness, Symptoms may be delayed.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 250 mg/kg. LD50 Dermal - Rabbit - 836 mg/kg.
CL50 (specify species and route of entry)	CL50 - Inhalation - Mouse - 248 ppm - 4h.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	EC50 - Daphnia magna (Water flea) - 80-380 mg/L - 48 h. EC50 - Selenastrum - 19 mg/L - 72 h. LC50 - Oncorhynchus mykiss (rainbow trout) - 10.6 - 96 h.
Persistence and degradability	Biodegradability aerobic. Result: 90 % - Readily biodegradable. Method: OECD Test Guideline 301D.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	1547
UN Proper shipping name	ANILINE
Transport hazard class(es)	6.1 Toxic substances
Packing group	II
Limited quantity index	0,1L
ERAP Index	-
Special precautions	43

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Liquides inflammables category 4 Acute toxicity - Oral category 3 Acute toxicity - Dermal category 3 Skin corrosion/irritation - Skin irritation category 2 Serious eye damage/eye irritation - Serious eye damage category 1 Respiratory or skin sensitization - Skin sensitize category 1 Germ cell mutagenicity category 2 Carcinogenicity category 2 Acute toxicity - Inhalation category 3 Specific Target Organ Toxicity - Repeated exposure category 1
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SECTION 16 - OTHER INFORMATION

Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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