

SAFETY DATA SHEET

Creation Date 15-Dec-2009

Revision Date 09-Mar-2018

Revision Number 1

1. Identification				
Product Name	Anisole			
Cat No. :	A12997			
CAS-No Synonyms	100-66-3 Methoxybenzene			
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use			
Details of the supplier of the safety data sheet				
Company Alfa Aesar				

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Liver, Kidney.	

Label Elements

Signal Word Warning

Hazard Statements

Flammable liquid and vapor May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Keep cool Response Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

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

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Anisole	100-66-3	>95

4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.			
Inhalation	Move to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.			
Ingestion	Do not induce vomiting. Obtain medical attention.			

Most important symptoms and effects Notes to Physician	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically				
	5. Fire-fighting measures				
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.				
Unsuitable Extinguishing Media	No information available				
Flash Point	43 °C / 109.4 °F				
Method -	No information available				
Autoignition Temperature	475 °C / 887 °F				
Explosion Limits Upper Lower Oxidizing Properties	6.3 vol % 0.34 vol % Not oxidising				

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Phenols

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Health 2		Flammability 2	Instability 0	Physical hazards N/A		
		6. Accidental rel	ease measures			
Personal	Precautions	autions Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing.				
Environr	nental Precautions	Avoid release to the enviror	nment. See Section 12 for add	litional ecological information.		
Methods Up	Methods for Containment and Clean Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.					
		7. Handling a	and storage			
Handling	1	sources of ignition. Use spa precautionary measures ag	quipment. Keep away from op ark-proof tools and explosion-p ainst static discharges. Avoid d inhalation. Use only non-spa	proof equipment. Take contact with skin, eyes and		
Storage		Keep containers tightly clos and sources of ignition. Fla		tilated place. Keep away from heat		

8. Exposure controls / personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties					
Physical State	Liquid				
Appearance	Colorless				
Odor	sweet aromatic				
Odor Threshold	No information available				
рН	No information available				
Melting Point/Range	-37 °C / -34.6 °F				
Boiling Point/Range	154 °C / 309.2 °F @ 760 mmHg				
Flash Point	43 °C / 109.4 °F				
Evaporation Rate	No information available				
Flammability (solid,gas)	Not applicable				
Flammability or explosive limits					
Upper	6.3 vol %				
Lower	0.34 vol %				
Vapor Pressure	10 mmHg @ 42 °C				
Vapor Density	3.72				
Specific Gravity	0.990				
Solubility	moderately soluble				
Partition coefficient; n-octanol/water	No data available				
Autoignition Temperature	475 °C / 887 °F				
Decomposition Temperature	No information available				
Viscosity	1.52 cP @ 15°C cps				
Molecular Formula	C7 H8 O				
Molecular Weight	108.14				

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.		
Incompatible Materials	Strong oxidizing agents		

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂), Phenols

Hazardous polymerization does not occur. **Hazardous Polymerization**

Hazardous Reactions

May form explosive peroxides.

11. Toxicological information

Acute Toxicity

Product Information

Component Information				
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Anisole	LD50 = 3700 mg/kg (Rat)	Not listed	3021 mg/m ³ /2h (Mouse)	
oxicologically Synergistic Products Delayed and immediate effects	No information available as well as chronic effects from sh	ort and long-term expos	ure_	
rritation	No information available			
Sensitization	No information available			
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.			

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Anisole	100-66-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effects		No information available.					
Developmental Effects		No information available.					
Teratogenicity		No information available.					
STOT - single exposure STOT - repeated exposure		Central nervous system (CNS) Liver Kidney					
Aspiration hazard		No information available					
Symptoms / effects,both acute and delayed		Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting					
Endocrine Disruptor Information		No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity

Component	Freshwater Algae		Freshwa	ter Fish	Microtox	Water Flea		
Anisole	Not listed		Not I	isted	EC50 = 18.8 mg/L 30 min	EC50 = 40 mg/L 24h		
Persistence and Degradability		Persistence is	Persistence is unlikely					
Bioaccumulation/ Accumulation		No informatio						
Mobility . Will likely be m		e mobile in the	e environmer	nt due to its water solubility.				
Component				log Pow				
Anisole			2.11					

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT				
UN-No	UN2222			
Proper Shipping Name	ANISOLE			
Hazard Class	3			
Packing Group	III			
TDG				
UN-No	UN2222			
Proper Shipping Name	ANISOLE			
Hazard Class	3			
Packing Group	III			
IATA				
UN-No	UN2222			
Proper Shipping Name	ANISOLE			
Hazard Class	3			
Packing Group	111			
IMDG/IMO				
UN-No	UN2222			
Proper Shipping Name	ANISOLE			
Hazard Class	3			
Packing Group				
15. Regulatory information				

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

U.S. Federal Regulations

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Anisole	Х	Х	-	202-876-1	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Anisole	-	Х	-	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Moderate risk, Grade 2

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date Print Date Revision Summary	15-Dec-2009 09-Mar-2018 09-Mar-2018 SDS authoring systems update, replaces ChemGes SDS No. 100-66-3.

Disclaimer

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

End of SDS