1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	:	Anisole
Number	:	000000020678
Recommended use of the chemical and restrictions on use	:	Laboratory chemicals
Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926 Germany
For further information, please contact:	:	1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1-800-498-5701 or +1-303-389-1414**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887** **In Japan: +(81)-345209637**

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture	:	Flammable liquids, Category 3 Short-term (acute) aquatic hazard, Category 3

GHS Label elements, including precautionary statements

Symbol(s) :

Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapour. Harmful to aquatic life.

Precautionary statements : **Prevention:**
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.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
Store in a well-ventilated place. Keep cool.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C7H8O

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Anisole Anisole	100-66-3	<=100.00 %

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.
Move out of dangerous area.

Take off all contaminated clothing immediately.

Inhalation	:	If breathed in, move person into fresh air. If symptoms persist, call a physician.
Skin contact	:	After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.
Eye contact	:	Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.
Ingestion	:	When swallowed, allow water to be drunk. Call a physician immediately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	:	Flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Fire may cause evolution of: Carbon oxides
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	:	Wear personal protective equipment. Unprotected persons must be kept away.

emergency procedures		Evacuate personnel to safe areas. Provide adequate ventilation. Remove all sources of ignition.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Ventilate the area. Do not use sparking tools. Use explosion-proof equipment. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Precautions for safe handling	:	Wear personal protective equipment. Use only in well-ventilated areas.
Advice on protection against fire and explosion	:	Keep product and empty container away from heat and sources of ignition. No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

Storage

Conditions for safe storage, including any incompatibilities	:	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	:	Impervious gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Protective suit
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.
Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid inhalation of vapour or mist. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	colourless
Odour	:	aromatic
pH	:	Note: No data available
Melting point/range	:	-37 °C
Boiling point/boiling range	:	ca. 154 °C at 1,013 hPa
Flash point	:	109 °F (43 °C) Method: closed cup
Flammability	:	Not applicable
Lower explosion limit	:	Note: No data available

Upper explosion limit	:	Note: No data available
Vapour pressure	:	3.2 hPa at 20 °C(68 °F)
Density	:	1.00 g/cm3 at 20 °C
Water solubility	:	1.7 g/l at 20 °C
Partition coefficient: n-octanol/water	:	log Pow: 2.11
Ignition temperature	:	475 °C
Decomposition temperature	:	Note: No decomposition if used as directed.
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	108.14 g/mol

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials to avoid	:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact, Ingestion

Acute oral toxicity	:	LD50: 3,700 mg/kg Species: Rat
Acute inhalation toxicity	:	LC50: > 6.51 mg/l , vapour Exposure time: 4 h Species: Rat, male and female Method: OECD Test Guideline 403 Note: No deaths
Acute dermal toxicity	:	LD50: > 5,000 mg/kg Species: Rabbit
Skin corrosion/irritation	:	Species: Rabbit Result: Mild skin irritation Method: OECD Test Guideline 404
Serious eye damage/eye irritation	:	Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405
Respiratory or skin sensitisation	:	Species: Guinea pig Result: Not a skin sensitizer. Method: OECD Test Guideline 406
Repeated dose toxicity	:	Species: Rat, male and female Application Route: Inhalation Exposure time: 29 d No observed adverse effect level: 3000 mg/m3 Method: OECD Test Guideline 412
Germ cell mutagenicity	:	Note: No data available
Carcinogenicity	:	Note: No data available
Reproductive toxicity	:	Note: No data available
Aspiration toxicity	:	No data available

12. ECOLOGICAL INFORMATION

Aquatic and ecotoxicity

Toxicity to fish	:	Note: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Immobilization EC50: 27 mg/l Exposure time: 48 h Species: Daphnia (water flea) Method: OECD Test Guideline 202
Toxicity to algae	:	Growth rate EC50: 47 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201
Toxicity to bacteria	:	NOEC: 300 mg/l Exposure time: 3 h Species: activated sludge Method: OECD Test Guideline 209

Persistence and degradability

Biodegradability	:	Result: Readily biodegradable

Other adverse effects

Additional ecological information	:	Should not be released into the environment.

13. DISPOSAL CONSIDERATIONS

WDPCL Waste Disposal and	:	Specially Controlled Industrial Waste

Public Cleansing Law

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No. : UN 2222
Description of the goods : ANISOLE

Class : 3
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IATA

UN/ID No. : UN 2222
Description of the goods : Anisole
Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355
Packing instruction (passenger aircraft) : Y344

IMDG

UN/ID No. : UN 2222
Description of the goods : ANISOLE
Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-D

Marine pollutant : no

15. REGULATORY INFORMATION

National regulatory information

Fire Service Law JP FSL DS4	:	Type 2 petroleums Flammable liquids Storage Limit: 1000 liters III
Vessel Safety Law JP VSL	:	Flammable liquids (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)
Aviation Law JP AVL	:	Flammable liquid (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)
Fire Service Law	:	Group 4 Flammable liquids Type 2 petroleums Hazardous rank III Water insoluble Keep away from fire Listed
Poisonous and Deleterious Substances Control Law	:	Not relevant

Other international regulations

Notification status

US. Toxic Substances Control Act	:	On TSCA Inventory
Australia. Industrial Chemicals Act (AIIC), as amended	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

		HMIS III	NFPA
Health hazard	:	1	1
Flammability	:	2	2
Physical Hazard	:	0	
Instability	:		0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

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