

# Thioanisole Apollo Scientific

Part Number: **OR2490** Version No: **2.2** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: 06/07/2023 Print Date: 06/07/2023 S.GHS.GB-NIR.EN

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	Thioanisole
Chemical Name	thioanisole
Synonyms	Not Available
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa); FLAMMABLE LIQUID, N.O.S. (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa); FLAMMABLE LIQUID, N.O.S.
Chemical formula	C7-H8-S
Other means of identification	Not Available
CAS number	100-68-5*

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Not Available

# Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific	Apollo Scientific Itd
Address	Whitefield Road, Bredbury SK62QR United Kingdom	Whitefield Road, Bredbury Cheshire SK6 2QR United Kingdom (NI)
Telephone	01614060505	+44(0) 161 406 0505
Fax	0161 406 0506	Not Available
Website	http://www.apolloscientific.co.uk/	apolloscientific.co.uk
Email	sales@apolloscientific.co.uk	sales@apolloscientific.co.uk

#### **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Classification according to	H226 - Flammable Liquids Category 3, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation)
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regulation (EC) No 1272/2008 [CLP] and amendments <sup>[1]</sup>	Category 3, H302 - Acute Toxicity (Oral) Category 4, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements



Signal word Warning

### Hazard statement(s)

H226	Flammable liquid and vapour.	
H335	May cause respiratory irritation.	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

### Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection and face protection.

### Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P330	Rinse mouth.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

### Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

#### Substances

CAS No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
100-68-5*	100	Thioanisole	Flammable Liquids Category 3, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H226, H335, H302, H315, H319 <sup>[1]</sup>	Not Available

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

### Mixtures

See section above for composition of Substances

### **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

#### Extinguishing media

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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### Advice for firefighters

Fire Fighting	
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are flammable.</li> <li>Moderate fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic/ irritating fumes.</li> </ul>

### **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>Wipe up.</li> <li>Collect residues in a flammable waste container.</li> </ul>
Major Spills	

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### Precautions for safe handling

Safe handling	<ul> <li>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of overexposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>Do NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid generation of static electricity.</li> <li>DO NOT use plastic buckets.</li> <li>Earth all lines and equipment.</li> <li>Use spark-free tools when handling.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> <li>Do NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	<ul> <li>Store in original containers in approved flammable liquid storage area.</li> <li>Store away from incompatible materials in a cool, dry, well-ventilated area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access.</li> <li>Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.</li> <li>Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.</li> <li>Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors.</li> <li>Keep adsorbents for leaks and spills readily available.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>In addition, for tank storages (where appropriate):</li> <li>Store in grounded, properly designed and approved vessels and away from incompatible materials.</li> <li>For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up.</li> <li>Store at the should be above ground and diked to hold entire contents.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> <li>Plastic containers may only be used if approved for flammable liquid.</li> <li>Check that containers are clearly labelled and free from leaks.</li> </ul>
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Part Number: OR2490	Page <b>5</b> of <b>12</b>	Issue Date: 06/07/2023
Version No: 2.2	Thioanisole	Print Date: 06/07/2023
	<ul> <li>For low viscosity materials (i) : Drums and jerry cans must be of the non-reused as an inner package, the can must have a screwed enclosure.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> <li>For manufactured product having a viscosity of at least 250 cSt. (23 deg. 4)</li> <li>Manufactured product that requires stirring before use and having a viscos head packaging; (ii) Cans with friction closures and (iii) low pressure tubes</li> <li>Where combination packages are used, and the inner packages are of gla material in contact with inner and outer packages</li> <li>In addition, where inner packagings are glass and contain liquids of packir to absorb any spillage, unless the outer packaging is a close fitting moulde incompatible with the plastic.</li> </ul>	C) sity of at least 20 cSt (25 deg. C): (i) Removable s and cartridges may be used. ss, there must be sufficient inert cushioning ng group I there must be sufficient inert absorbent
Storage incompatibility	<ul> <li>Avoid reaction with oxidising agents</li> <li>Stench</li> </ul>	

## SECTION 8 Exposure controls / personal protection

### **Control parameters**

### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Not Available

### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Thioanisole	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
Thioanisole	Not Available		Not Available	

### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
Thioanisole	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemica potency and the adverse health outcomes associated with exposu band (OEB), which corresponds to a range of exposure concentra	ire. The output of this process is an occupational exposure

### **Exposure controls**

	provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker a that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contar designed properly. The design of a ventilation system must match the particular process and chemical or contam Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system no Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "c	ninant if inant in use. nay be require
propriate engineering	velocities" of fresh circulating air required to effectively remove the contaminant.	
opriate engineering controls		Air Speed:
	velocities" of fresh circulating air required to effectively remove the contaminant.	•
	velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminant:	0.25-0.5 m/ (50-100

### Thioanisole

	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tar meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extrapparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction system installed or used.  • Adequate ventilation is typically taken to be that which limits the average concentration to no more than 25% of the LE the building, room or enclosure containing the dangerous substance.  • Ventilation for plant and machinery is normally considered adequate if it limits the average concentration of any dange substance that might potentially be present to no more than 25% of the LEL. However, an increase up to a maximum 50 can be acceptable where additional safeguards are provided to prevent the formation of a hazardous explosive atmospie example, gas detectors linked to emergency shutdown of the process might be used together with maintaining or increase exhaust ventilation on solvent evaporating ovens and gas turbine enclosures.  • Temporary exhaust ventilation systems may be provided for non-routine higher-risk activities, such as cleaning, repair maintenance in tanks or other confined spaces or in an emergency after a release. The work procedures for such activit should be carefully considered. The atmosphere should be continuously monitored to ensure that ventilation is adequate are aremains safe. Where workers will enter the space, the ventilation should ensure that the concentration of the dangerous the provided to prevent that the concentration of the			
Individual protection measures, such as personal protective equipment	substance does not exceed 10% of the LEL (irrespective of the provision of suitable breathing apparatus)		
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>		
Skin protection	See Hand protection below		
	manufacturer to manufacturer. Where the chemical is a pre- can not be calculated in advance and has therefore to be of The exact break through time for substances has to be obt observed when making a final choice.	ained from the manufacturer of the protective gloves and has to be Gloves must only be worn on clean hands. After using gloves, hands on-perfumed moisturiser is recommended.	
Hands/feet protection	Select gloves tested to a relevant standard (e.g. Europe El When prolonged or frequently repeated contact may occu greater than 240 minutes according to EN 374, AS/NZS 21 When only brief contact is expected, a glove with a protect according to EN 374, AS/NZS 2161.10.1 or national equiva	Ir, a glove with a protection class of 5 or higher (breakthrough time 61.10.1 or national equivalent) is recommended. ction class of 3 or higher (breakthrough time greater than 60 minutes alent) is recommended. It and this should be taken into account when considering gloves for	

- Good when breakthrough time > 20 mir
- Fair when breakthrough time < 20 min
- Poor when glove material degrades
- For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

	It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: • Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. • Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure severe.</li> <li>Eyewash unit.</li> <li>Ensure there is ready access to a safety shower.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.</li> </ul>

### **SECTION 9** Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-15	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	188	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

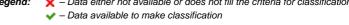
### **SECTION 11 Toxicological information**

### Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.
	Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	*
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×



### **SECTION 12 Ecological information**

### Toxicity

Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity
	4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -
	Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Thioanisole	HIGH	HIGH

Part Number: OR2490	Page 9 of 12
Version No: 2.2	Thioanisole

Ingredient	Bioaccumulation
Thioanisole	LOW (LogKOW = 2.74)
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### Mobility in soil

Ingredient	Mobility
Thioanisole	LOW (KOC = 517.8)

### **SECTION 13 Disposal considerations**

### Waste treatment methods

Product / Packaging disposal
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### **SECTION 14 Transport information**

### Labels Required

Marine Pollutant	NO

### Land transport (ADR-RID)

	-			
UN number or ID number	1993			
UN proper shipping name	not more than 110	kPa); FLAMMA	ABLE LIQUID, N.	t below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C O.S. (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) AMMABLE LIQUID, N.O.S.
Transport hazard class(es)	Class	3		
	Subsidiary risk	Not Applicab	le	
Packing group	Ш			
Environmental hazard	Not Applicable			
	Hazard identifica	tion (Kemler)	30	
	Classification co	de	F1	
Special precautions for	Hazard Label		3	
user	Special provision	IS	274 601	
	Limited quantity		5 L	
	Tunnel Restrictio	n Code	3 (D/E) 3 (E)	

### Air transport (ICAO-IATA / DGR)

· ·				
UN number	1993			
UN proper shipping name	Flammable liquid, n.o.s. *			
Transport hazard class(es)	ICAO/IATA Class	3		
	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group				
Environmental hazard	Not Applicable			
	Special provisions	A3		
	Cargo Only Packing Ir	366		
	Cargo Only Maximum	220 L		
Special precautions for user	Passenger and Cargo	355		
usei	Passenger and Cargo	Passenger and Cargo Maximum Qty / Pack		
	Passenger and Cargo	Passenger and Cargo Limited Quantity Packing Instructions		
	Passenger and Cargo Limited Maximum Qty / Pack		10 L	

### Sea transport (IMDG-Code / GGVSee)

UN number	1993			
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.			
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk N	3 Not Applicable		
Packing group	Ш			
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number Special provisions Limited Quantities			

### Inland waterways transport (ADN)

UN number	1993		
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.; FLAMMABLE LIQUID, N.O.S. (having a flashpoint below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa); FLAMMABLE LIQUID, N.O.S. (having a flashpoint below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)		
Transport hazard class(es)	3 Not Applicable		
Packing group	Ш		
Environmental hazard	Not Applicable		
Special precautions for user	Classification code F1 Special provisions 274; 601		
	Limited quantity 5 L		
	Equipment required PP, EX, A		
	Fire cones number 0		

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Thioanisole	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Thioanisole	Not Available

#### **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

Thioanisole is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	No (Thioanisole)		
Canada - NDSL	Yes		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (Thioanisole)		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

#### **SECTION 16 Other information**

Revision Date	06/07/2023
Initial Date	06/07/2023

#### SDS Version Summary

Version	Date of Update	Sections Updated
1.2	06/07/2023	Toxicological information - Acute Health (skin), Physical and chemical properties - Appearance, CAS Number, Disposal considerations - Disposal, First Aid measures - First Aid (skin), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Korean MSDS Number, Exposure controls / personal protection - Personal Protection (hands/feet), Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average PC - STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Flammable Liquids Category 3, H226	Expert judgement	
Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H335	Expert judgement	
Acute Toxicity (Oral) Category 4, H302	Expert judgement	
Skin Corrosion/Irritation Category 2, H315	Calculation method	
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement	

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