

# o-Toluamide Apollo Scientific

Part Number: **OR451329** 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	o-Toluamide
Chemical Name	o-toluamide
Synonyms	Not Available
Chemical formula	C8H9NO
Other means of identification	Not Available
CAS number	527-85-5*

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

Relevant identified uses Not

s 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 regulation (EC) No 1272/2008 [CLP] and amendments <sup>[1]</sup>

H302 - Acute Toxicity (Oral) Category 4

rt Number: <b>OR451329</b> rsion No: <b>2.2</b>		Page 2 of 10	Issue Date: 06/07/20 Print Date: 06/07/20
		o-Toluamide	
Legend:	1. Classified by Chemw	ratch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
abel elements			
Hazard pictogram(s)			
Signal word	Warning		
lazard statement(s)			
H302	Harmful if swallowed.		
П302	Haimiui li Swalloweu.		
recautionary statement	(a) Brovention		
	(S) Frevention		
P264		nal body areas thoroughly after handling.	
-	Wash all exposed exter	nal body areas thoroughly after handling. oke when using this product.	
P264 P270	Wash all exposed exter Do not eat, drink or smo		
P264 P270	Wash all exposed exter Do not eat, drink or smo (s) Response		
P264 P270 Precautionary statement	Wash all exposed exter Do not eat, drink or smo (s) Response	oke when using this product.	
P264 P270 Precautionary statement P301+P312 P330 Precautionary statement ot Applicable	Wash all exposed exter Do not eat, drink or smo (s) Response IF SWALLOWED: Call a Rinse mouth. (s) Storage	oke when using this product.	
P264 P270 Precautionary statement P301+P312 P330 Precautionary statement lot Applicable	Wash all exposed exter Do not eat, drink or smo (s) Response IF SWALLOWED: Call & Rinse mouth. (s) Storage (s) Disposal	oke when using this product.	ith any local regulation.
P264 P270 recautionary statement P301+P312 P330 recautionary statement ot Applicable recautionary statement P501	Wash all exposed exter Do not eat, drink or smo (s) Response IF SWALLOWED: Call a Rinse mouth. (s) Storage (s) Disposal Dispose of contents/cor	bke when using this product. a POISON CENTER/doctor/physician/first aider if you feel unwell.	ith any local regulation.
P264 P270 Precautionary statement P301+P312 P330 Precautionary statement lot Applicable Precautionary statement P501 SECTION 3 Composition	Wash all exposed exter Do not eat, drink or smo (s) Response IF SWALLOWED: Call a Rinse mouth. (s) Storage (s) Disposal Dispose of contents/cor	bke when using this product. a POISON CENTER/doctor/physician/first aider if you feel unwell.	ith any local regulation.
P264 P270 Precautionary statement P301+P312 P330 Precautionary statement lot Applicable Precautionary statement P501	Wash all exposed exter Do not eat, drink or smo (s) Response IF SWALLOWED: Call a Rinse mouth. (s) Storage (s) Disposal Dispose of contents/cor	bke when using this product. a POISON CENTER/doctor/physician/first aider if you feel unwell.	ith any local regulation.

# 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 eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
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

o-Toluamide

# **SECTION 5 Firefighting measures**

#### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul>	

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety glasses.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Do NOT use air hoses for cleaning</li> <li>Place spilled material in clean, dry, sealable, labelled container.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>Prevent spillage from entering drains, sewers or water courses.</li> <li>Avoid generating dust.</li> <li>Sweep, shovel up. Recover product wherever possible.</li> <li>Put residues in labelled plastic bags or other containers for disposal.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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>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 are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</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>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known

# **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
o-Toluamide	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
o-Toluamide	Not Available		Not Available	

# **Exposure controls**

Appropriate engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to 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 and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant in designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.         • Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction. • I in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.	
	 <ul> <li>engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</li> <li>The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</li> <li>Employers may need to use multiple types of controls to prevent employee overexposure.</li> <li>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.</li> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.</li> <li>Such protection might consist of: <ul> <li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li> <li>(b): filter respirators with absorption cartridge or canister of the right type;</li> <li>(c): fresh-air hoods or masks.</li> </ul> </li> <li>Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture</li> </ul>

Part Number: OR451329 Version No: 2.2

#### o-Toluamide

	Type of Contaminant:		Air Speed:	
	direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)	gas 1-2.5 m/s (200-500 f/min.)		
	grinding, abrasive blasting, tumbling, high speed wheel ge velocity into zone of very high rapid air motion).	itial 2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:			
	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 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems a installed or used.			
Individual protection measures, such as personal protective equipment				
Eye and face protection	<ul> <li>Safety glasses with side shields</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national</li> <li>Contact lenses may pose a special hazard; soft contact document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for t Medical and first-aid personnel should be trained in the event of chemical exposure, begin eye irrigation immedia be removed at the first signs of eye redness or irritation have washed hands thoroughly. [CDC NIOSH Current I</li> </ul>	t lenses may absorb and concentra ons on use, should be created for e the class of chemicals in use and a ir removal and suitable equipment diately and remove contact lens as a - lens should be removed in a cle	each workplace or task. This should in account of injury experience. should be readily available. In the soon as practicable. Lens should	
Skin protection	See Hand protection below			
Hands/feet protection	The selection of suitable gloves does not only depend on the manufacturer to manufacturer. Where the chemical is a precommunication of the cannot be calculated in advance and has therefore to be of the exact break through time for substances has to be obtrobserved when making a final choice. Personal hygiene is a key element of effective hand care. Of should be washed and dried thoroughly. Application of a not Suitability and durability of glove type is dependent on usage frequency and duration of contact, chemical resistance of glove material, glove thickness and detertity Select gloves tested to a relevant standard (e.g. Europe EN When prolonged or frequently repeated contact may occur 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 equival Some glove polymer types are less affected by movement long-term use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are excellent when breakthrough time > 20 min Fair when breakthrough time < 20 min	eparation of several substances, the checked prior to the application. ained from the manufacturer of the Gloves must only be worn on clean on-perfumed moisturiser is recomm ge. Important factors in the selection r, a glove with a protection class o 61.10.1 or national equivalent) is r ction class of 3 or higher (breakthro alent) is recommended. It and this should be taken into acc	e resistance of the glove material e protective gloves and has to be hands. After using gloves, hands hended. on of gloves include: r national equivalent). f 5 or higher (breakthrough time ecommended. bugh time greater than 60 minutes	

	o-Toluamide
	<ul> <li>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.</li> <li>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</li> <li>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.</li> <li>Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.</li> <li>polychloroprene.</li> <li>nitrile rubber.</li> <li>butyl rubber.</li> <li>fluorocaoutchouc.</li> <li>polyvinyl chloride.</li> </ul>
	Gloves should be examined for wear and/ or degradation constantly.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Barrier cream. • Eyewash unit.

Page 6 of 10

Issue Date: 06/07/2023

Print Date: 06/07/2023

#### **Respiratory protection**

Part Number: OR451329

Version No: 2.2

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1	-	PAPR-P1
	Air-line*	-	-
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

• Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

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

#### Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Solid	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)	141-142	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	132	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 Applicable
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

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
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	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.		
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.		
. Tokuomida	ΤΟΧΙCITY	IRRITATION	
o-Toluamide	Not Available	Not Available	
Legend:	<ol> <li>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</li> </ol>		

Acute Toxicity	*	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×

Legend: X − Data either not available or does not fill the criteria for classification ✓ − Data available to make classification

# **SECTION 12 Ecological information**

|--|

	Endpoint	Test Duration (hr)	Species	Value	Source
o-Toluamide	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	4. US EPA, E		Registered Substances - Ecotoxicological Info ETOC Aquatic Hazard Assessment Data 6. I Data 8. Vendor Data	•	

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

#### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

# **SECTION 13 Disposal considerations**

#### Waste treatment methods

	Recycle wherever possible or consult manufacturer for recycling options.
Product / Packaging	Consult State Land Waste Management Authority for disposal.
disposal	Bury residue in an authorised landfill.
	Recycle containers if possible, or dispose of in an authorised landfill.

# **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant NO

# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### 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

Part Number: OR451329		Page 9 of 10		Issue Date: 06/07/2023	
Version No: 2.2			o-Toluamide		Print Date: 06/07/2023
Product name	Group				
Transport in bulk in accordance with the IGC Code					

Product name

### **SECTION 15 Regulatory information**

Ship Type

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

# **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Not Available
Canada - DSL	Not Available
Canada - NDSL	Not Available
China - IECSC	Not Available
Europe - EINEC / ELINCS / NLP	Not Available
Japan - ENCS	Not Available
Korea - KECI	Not Available
New Zealand - NZIoC	Not Available
Philippines - PICCS	Not Available
USA - TSCA	Not Available
Taiwan - TCSI	Not Available
Mexico - INSQ	Not Available
Vietnam - NCI	Not Available
Russia - FBEPH	Not Available
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 (inhaled), Physical and chemical properties - Appearance, CAS Number, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Composition / information on ingredients - Ingredients, Korean MSDS Number, 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**

o-Toluamide

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	
Acute Toxicity (Oral) Category 4, H302	Expert judgement	

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