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Safety Data Sheet according to WHS Regulations

Printing date 05.04.2024

Revision: 28.07.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

· Trade name: Toluene Radioactive LSC Standards

· Product number:

6008400, 6008401A, 6008402A, 6008403A, 6008411A, 6008412A, 6008413A, 6008500A, 6008501A, 6008502A, 6008503A, 6008511A, 6008512A, 6008513A, 6018551A, 6018552A, 6018553A, 6018594A, 6018595A, 6018596A, 6018911A, 6018912A, 6018913A, 6018914A, 6018917A, 6018918A, 6018919A

- · Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Revvity, Inc 549 Albany Street Boston, MA 02118 Supplier/Local:

Revvity Pty. Ltd Building C, Level 2, Tenancy A, 211 Wellington Road Mulgrave 3170, VIC Australia • Emergency telephone number: CHEMTREC (within US) 800-424-9300 CHEMTREC (from outside US) 1(703)-527-3887 • Local Emergency Number CHEMTREC - (Within Australia) +(61)-290372994

• *Further information obtainable from:* US Technical Support 800-762-4000

2 Hazard(s) Identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Repr. 1A H360 May damage fertility or the unborn child.

STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

• Additional information: For the wording of the relevant risk phrases refer to section 16.

· Label elements

• *GHS label elements* The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



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Trade name: Toluene Radioactive LSC Standards

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Signal word Danger	
Hazard-determining components of labelling:	
toluene (75-100 %)	
Hazard statements	
Highly flammable liquid and vapour.	
Causes skin irritation.	
May damage fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse ski	in with water/shower.
Take off contaminated clothing and wash it before reuse.	
Dispose of contents/container in accordance with local/regional/national/international r	egulations.
Other hazards	-
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

108-88-3 toluene

• Additional information: For the wording of the relevant risk phrases refer to section 16.

4 First Aid Measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

• Information for doctor:

· Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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75-100%

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- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Storage:
- Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- *Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.*
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see section 7.

· Ingredients with limit values that require monitoring at the workplace:

108-88-3 toluene (75-100%)

WES Short-term value: 574 mg/m³, 150 ppm Long-term value: 191 mg/m³, 50 ppm Sk

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· Colour:

· Odour:

• Odour threshold: • pH-value:

· Flash point:

• Change in condition

• *Melting point/freezing point:*

· Flammability (solid, gas):

· Ignition temperature:

· Explosive properties:

• Auto-ignition temperature:

• Decomposition temperature:

• Initial boiling point and boiling range: 110 °C

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· Personal protective equipme	
 General protective and hygi 	
Keep away from foodstuffs, I	
	ed and contaminated clothing
Wash hands before breaks a	
Store protective clothing sep	arately.
Avoid contact with the skin.	
Avoid contact with the eyes of	ind skin.
• Respiratory protection:	
	low pollution use respiratory filter device. In case of intensive or longer exposure use
self-contained respiratory pr	
Suitable respiratory protecti • Protection of hands:	ve device recommended.
Frolection of nanas.	
IT	
<i>Protective gloves</i>	
	<i>impermeable and resistant to the product/ the substance/ the preparation.</i>
	al on consideration of the penetration times, rates of diffusion and the degradation
• Material of gloves	gloves does not only depend on the material, but also on further marks of quality and
	manufacturer. As the product is a preparation of several substances, the resistance
	<i>t</i> be calculated in advance and has therefore to be checked prior to the application.
• Penetration time of glove m	
	ne has to be found out by the manufacturer of the protective gloves and has to be
observed.	te nus to be jound out by the manufacturer of the protective gloves and has to be
• Eye protection:	
Tightly sealed go	zgles
9 Physical and Chemical	Properties
• General Information	
· Appearance:	
· Form:	Fluid

According to product specification

Characteristic Not determined.

Not determined.

Highly flammable.

Product is not selfigniting.

mixtures are possible.

Product is not explosive. However, formation of explosive air/vapour

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AU.

Not determined.

-95 °C

535 °C

 $4 \ ^{\circ}C$

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Explosion limits:		
Lower:	1.2 Vol %	
Upper:	7 Vol %	
Vapour pressure at 20 °C:	29 hPa	
Vapour pressure at 50 °C:	124 hPa	
Density at 20 °C:	0.86564 g/cm^3	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water at 15 °C:	0.5 g/l	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	99.3 %	
Solids content:	0.7 %	
Other information	No further relevant information available.	

10 Stability and Reactivity

· Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity May damage fertility or the unborn child.
- · STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard May be fatal if swallowed and enters airways.

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · *Bioaccumulative potential* No further relevant information available.

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• *Mobility in soil* No further relevant information available.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

• Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

• Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
ADG, IMDG, IATA	UN1294	
UN proper shipping name		
ADG	1294 TOLUENE mixture	
IMDG, IATA	TOLUENE mixture	
Transport hazard class(es)		
ADG, IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
Packing group		
ADG, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Flammable liquids.	
Hazard identification number (Kemler code):	33	
EMS Number:	F-E,S-D	
Stowage Category	В	
Transport in bulk according to Annex II of Mar		
and the IBC Code	Not applicable.	
Transport/Additional information:		
ADG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
T	Maximum net quantity per outer packaging: 500 ml	
Transport category	2	

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• Tunnel restriction code	D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1294 TOLUENE MIXTURE, 3, II

15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

108-88-3 toluene

92-71-7 2,5-diphenyloxazole

3073-87-8 1,4-bis(4-methyl-5-phenyloxazol-2-yl)benzene

• Standard for the Uniform Scheduling of Medicines and Poisons

108-88-3 toluene

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

• *GHS label elements* The product is classified and labelled according to the Globally Harmonised System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labelling: toluene (75-100 %) · Hazard statements Highly flammable liquid and vapour. Causes skin irritation. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off contaminated clothing and wash it before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations. · Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

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Repr. 1A: Reproductive toxicity - Category IA

Asp. Tox. 1: Aspiration hazard – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided in this safety data sheet is based on our current knowledge, and is believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be regarded as a warranty or specification of quality. All materials may present unknown hazards and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Revvity, Inc. cannot be held liable for any damage resulting from handling or contact with the product. · Relevant phrases H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. · Contact: · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2

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