

## Toro 41607 Pro-Foam

The Toro Company

Chemwatch Hazard Alert Code: 2

Print Date: 18/05/2017

Safety Data Sheet according to WHS and ADG requirements

S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier	
Product name	Toro 41607 Pro-Foam
Synonyms	Not Available
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Other means of identification	Not Available
Relevant identified uses of the	ne substance or mixture and uses advised against
Relevant identified uses	Use according to manufacturer's directions.
Details of the supplier of the	safety data sheet
Registered company name	Toro Australia
Address	53 Howards Road, Beverley, South Australia 5009, Australia
Telephone	08 8300 3633
Fax	08 8243 2940
Website	www.toro.com.au
Email	info.au.toro.com
Emergency telephone number	er -
Association / Organisation	State EPA
Emergency telephone numbers	000 (Police, Fire, Ambulance)
Other emergency telephone numbers	Poisons Information 131 126

## **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

COMBUSTIBLE LIQUID, regulated for storage purposes only

Poisons Schedule	S6
[1] Classification	Flammable Liquid Category 3, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Label elements

GHS label elements





SIGNAL WORD

**WARNING** 

Hazard statement(s)

H226

Flammable liquid and vapour.

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P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Precautionary statement(s) P	revention
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
Precautionary statement(s) R	esponse
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use water spray/fog for extinction.
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.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Precautionary statement(s) S	torage
P403+P235	Store in a well-ventilated place. Keep cool.
Precautionary statement(s) D	)isposal
P501	Dispose of contents/container in accordance with local regulations.

## **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

## Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name	
Not Available	100	proprietary blend of surfactants, coupling agents and solvent	
		contains	
111-76-2		ethylene glycol monobutyl ether	

# **SECTION 4 FIRST AID MEASURES**

Description of first aid measu	ures
	If this product comes in contact with the eyes:
	▶ Immediately hold eyelids apart and flush the eye continuously with running water.
	▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and
Eye Contact	lower lids. ▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
	▶ Transport to hospital or doctor without delay.
	▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
	If skin contact occurs:
01 10 0 0 0 0 0 0 0	▶ Immediately remove all contaminated clothing, including footwear.
Skin Contact	▶ Flush skin and hair with running water (and soap if available).
	▶ Seek medical attention in event of irritation.
	Alf fumes, garagele or combustion products are inheled remove from contaminated
Inhalation	▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary.
	area. Fortier measures are usually unnecessary.

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# ▶ If swallowed do **NOT** induce vomiting.

- ▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- ▶ Observe the patient carefully.
- ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ▶ Seek medical advice.

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

Treat symptomatically.

#### **SECTION 5 FIREFIGHTING MEASURES**

Ingestion

#### **Extinguishing media**

- Foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

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

Special flazards arising from the substrate of mixture			
Fire Incompatibility	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	<ul> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>▶ Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers. ► On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Decomposes on heating and produces:         <ul> <li>carbon dioxide (CO2)</li> <li>May emit poisonous fumes.</li> </ul> </li> </ul>		
HAZCHEM	•3Y		

#### **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

- ▶ Remove all ignition sources.
- ▶ Clean up all spills immediately.
- ▶ Avoid breathing vapours and contact with skin and eyes.
- $\blacktriangleright$  Control personal contact with the substance, by using protective equipment.

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► Alert  Major Spills  ► May  ► Wea  ► Prev	ear area of personnel and move upwind.  ert Fire Brigade and tell them location and nature of hazard.  ey be violently or explosively reactive.  ear breathing apparatus plus protective gloves.  event, by any means available, spillage from entering drains or water course.  ensider evacuation (or protect in place).

#### **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling	g
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 smoking, naked lights or ignition sources.</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. ► 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> </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>
Storage incompatibility	▶ Avoid reaction with oxidising agents ▶ Avoid strong acids, bases.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9mg/m3 / 20 ppm	242 mg/m3 / 50 ppm	Not Available	Sk

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethylene glycol monobutyl	Butoxyethanol, 2-; (Glycol ether EB)	60 ppm	120 ppm	700 ppm

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Ingredient	Original IDLH	Revised IDLH	
proprietary blend of surfactants, coupling agents and solvent	Not Available	Not Available	
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm	
Exposure controls			
Appropriate engineering controls	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 if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.		
Personal protection			
Eye and face protection	<ul> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</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.</li> </ul>		
Skin protection	See Hand protection below		
Hands/feet protection	▶ Wear chemical protective gloves, e.g. PVC.  ▶ Wear safety footwear or safety gumboots, e.g. Rubber  The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.  Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.		
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. <ul> <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</li> <li>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.</li> </ul> </li> </ul>		
Thermal hazards	Not Available		

#### Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

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Material	СРІ
BUTYL	А
PE/EVAL/PE	А

SARANEX-23	Α
NEOPRENE	В
NITRILE	В
PVC	В
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
PVA	С

Respiratory protection

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Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 &

149:2001, ANSI Z88 or national equivalent)
\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	A-AUS / Class	-	A-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	A-2	A-PAPR-2
up to 50 x ES	-	A-3	-
50+ x ES	-	Air-line**	-

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selection must be based on detailed observation. -

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\*Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

^ - Full-face

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)

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#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear pale yellow liquid with sweet odour, does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	1.02-1.04
Odour	Not Available	Partition coefficient noctanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	7-9	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
nitial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>80 (Seta Closed Cup)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
pper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
ower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air =	>1	VOC g/L	Not Available

## **SECTION 10 STABILITY AND REACTIVITY**

B C. de.	Outure 7
Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials.  Product is considered stable.  Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7

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	of the material and ensure that any external damage is suitably protected.
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.
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 TOXICOLOGICAL INFORMATION**

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Inhaled		ealth effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal modexposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.
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
Skin Contact	existing dermatitis condition  Skin contact with the material may damage the health of should not be exposed to this material	tact in some persons. The material may accentuate any pre- the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin r example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the
Toro 41607 Pro-	TOXICITY	IRRITATION
Foam	Dermal (Rabbit) LD50: >5000 mg/kg  Oral (Rat) LD50: 4000 mg/kgl	Not Available
	Oral (Nat) EDSO: 4000 mg/kg	
	TOXICITY	IRRITATION
ethylene glycol monobutyl ether	dermal (rat) LD50: >2000 mg/kg	Eye (rabbit): 100 mg SEVERE
	Inhalation (rat) LC50: 450 ppm/47r	Eye (rabbit): 100 mg/24h-moderate
	Oral (rat) LD50: 250 mg/kg	Skin (rabbit): 500 mg, open; mild

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> The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

> The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

For ethylene glycol monoalkyl ethers and their acetates (EGMAEs):

Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE) and their acetates.

EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). Further, rapid conversion of the aldehydes by aldehyde dehydrogenase produces alkoxyacetic acids, which are the predominant urinary

metabolites of mono substituted glycol ethers.

#### Acute Toxicity: Oral LD50 values in rats for all category members range from 739 (EGHE) to 3089 mg/kg bw (EGPE), with values increasing with decreasing molecular weight. Four to six hour acute inhalation toxicity studies were conducted for these chemicals in rats at the highest vapour concentrations practically achievable. Values range from LC0 > 85 ppm (508 mg/m3) for EGHE, LC50 > 400ppm (2620 mg/m3) for EGBEA to LC50 > ETHYLENE GLYCOL 2132 ppm (9061 mg/m3) for EGPE. MONOBUTYL ETHER

Exposure of pregnant rats to ethylene glycol monobutyl ether (2-butoxyethanol) at 100 ppm or rabbits at 200 ppm during organogenesis resulted in maternal toxicity and embryotoxicity including a decreased number of viable implantations per litter. Slight foetoxicity in the form of poorly ossified or unossified skeletal elements was also apparent in rats. Teratogenic effects were not observed in other species.

At least one researcher has stated that the reproductive effects were less than that of other monoalkyl ethers of ethylene glycol.

Chronic exposure may cause anaemia, macrocytosis, abnormally large red cells and abnormal red cell fragility.

Exposure of male and female rats and mice for 14 weeks to 2 years produced a regenerative haemolytic anaemia and subsequent effects on the haemopoietic system in rats and mice. For ethylene glycol:

Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract. Limited information suggests that it is also absorbed through the respiratory tract; dermal absorption is apparently slow. Following absorption, ethylene glycol is distributed throughout the body according to total body

most mammalian species, including humans, ethylene glycol is initially metabolised by alcohol.

dehydrogenase to form glycolaldehyde, which is rapidly converted to glycolic acid and glyoxal by aldehyde oxidase and aldehyde dehydrogenase. These metabolites are oxidised to glyoxylate; glyoxylate may be further metabolised to formic acid, oxalic acid, and glycine.

NOTE: Changes in kidney, liver, spleen and lungs are observed in animals exposed to high concentrations of this substance by all routes. \*\* ASCC

	(NZ) 5D5		
Acute Toxicity	×	Carcinogenicity	
Skin Irritation/Corrosion	<b>~</b>	Reproductivity	
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity		Aspiration Hazard	

Leaend:

- Data available but does not fill the criteria for classification
- Data available to make classification
- Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

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Legend:

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
ethylene glycol monobutyl ether	LC50	96	Fish	222.042mg/L	3
ethylene glycol monobutyl ether	EC50	48	Crustacea	>1000mg/L	4
ethylene glycol monobutyl ether	EC50	96	Algae or other aquatic plants	1081.644mg/L	3
ethylene glycol monobutyl ether	EC50	384	Crustacea	51.539mg/L	3
ethylene glycol monobutyl ether	NOEC	96	Crustacea	1000mg/L	4
	Extracted from 1 ILIC	LID Toxicity Data 2 Furone ECH.	A Registered Substances - Ecotoxicologica	al Information - Aquatic Toxicity	/ 3 FPIM/IN Suita

from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6.

DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)

NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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**Bioaccumulative potential** 

Ingredient	Bioaccumulation
ethylene glycol monobutyl ether	LOW (BCF = 2.51)

#### Mobility in soil

Ingredient	Mobility
ethylene glycol monobutyl ether	HIGH (KOC = 1)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered

first. • Where in doubt contact the responsible authority.

- Recycle wherever possible.
  - © Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
  - Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
  - Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
     Containers may still present a chemical hazard/ danger when empty.
  - ${\scriptstyle 0}$  Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- olf container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

#### **SECTION 14 TRANSPORT INFORMATION**

# **Labels Required Marine Pollutant** NO HAZCHEM •3Y Land transport (ADG) UN number FLAMMABLE LIQUID, N.O.S. **UN proper shipping** Class 3 Transport hazard Subrisk Not Applicable class(es) Packing group Environmental Not Applicable hazard

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Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions	A3	
	Cargo Only Packing Instructions	366	
	Cargo Only Maximum Qty / Pack	220L	
	Passenger and Cargo Packing Instructions	355	
	Passenger and Cargo Maximum Qty / Pack	60 L	
	Passenger and Cargo Limited Quantity Packing Instructions Y344		
	Passenger and Cargo Limited Maximum Qty / Pack	10L	
Special precautions for user	Special provisions 223 274 Limited quantity 5 L		
Air transport (ICAO-IATA / [	OGR)		
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		
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 Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number F-E, S-E		
	Special provisions 223 274 955		
	Limited Quantities 5 L		

Not Applicable

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## **SECTION 15 REGULATORY INFORMATION**

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

# ETHYLENE GLYCOL MONOBUTYL ETHER(111-76-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Exposure Standards Australia Inventory of Chemical Substances (AICS) Australia Hazardous Substances Information System - Consolidated Lists National Inventory Status Australia - AICS Y Canada - DSL Y Canada - NDSL N (ethylene glycol monobutyl ether) China - IECSC Y Europe - EINEC / ELINCS / NLP Y

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Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

#### Other information

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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.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible \ Concentration-Short \ Term \ Exposure \ Limit}$ 

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

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

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