Toro Premium Synthetic Bio Hydraulic Fluid



Toro Premium Synthetic Bio Hydraulic Fluid

The Toro Company

Version No: 2.1.1.1

Chemwatch Hazard Alert Code: 0

Print Date: 17/05/2017

Safety Data Sheet according to WHS and ADG requirements

S.GHS.AUS.EN

Print Date: 17/05/2017

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

Product Identifier		
Product name	Toro Premium Synthetic Bio Hydraulic Fluid	
Synonyms	art numbers: 119-2158 and 119-2157,	
Other means of identification	Not Available	
Relevant identified uses of the	ne substance or mixture and uses advised against	
Relevant identified uses	Hydraulic fluid.	
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 substan	ce or mixture
Poisons Schedule	Not Applicable
Classification	Not Applicable
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

Not Applicable

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Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	100	Ingredients determined not to be hazardous

SECTION 4 FIRST AID MEASURES

Description of first aid measu	ures
	If this product comes in contact with the eyes: • Wash out immediately with fresh running water.
Eye Contact	▶ 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. ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.
	▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
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	▶ If fumes, aerosols or combustion products are inhaled remove from contaminated
	area. In Other measures are usually unnecessary.
	▶ 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.
Ingestion	▶ 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
Indication of any improvedints	comfortably drink. Feek medical advice. medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

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

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Fire Incompatibility	None known.
	Notic known.
Advice for firefighters	
	▶ Alert Fire Brigade and tell them location and nature of hazard.
	▶ Wear full body protective clothing with breathing apparatus.
	▶ Prevent, by any means available, spillage from entering drains or water
Fire Fighting	course. ▶ Use water delivered as a fine spray to control fire and cool adjacent
	area.
	▶ Avoid spraying water onto liquid pools.
	▶ DO NOT approach containers suspected to be hot.
	▶ Combustible.
	▶ Slight fire hazard when exposed to heat or flame.
	▶ Heating may cause expansion or decomposition leading to violent rupture of
	containers. ▶ On combustion, may emit irritating/ toxic fumes.
	▶ May emit acrid smoke.
Fire/Explosion Hazard	▶ Mists containing combustible materials may be explosive.
Hazaru	Decomposes on heating and produces:
	carbon dioxide (CO2)
	carbon monoxide (CO)
	nitrogen oxides (NOx)
	sulfur oxides (SOx)
	, aldehydes
HAZCHEM	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

SECTION 7 HANDLING AND STORAGE

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Precautions for safe handling	9
Safe handling	 ▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Prevent concentration in hollows and sumps. ▶ DO NOT enter confined spaces until atmosphere has been checked. ▶ Avoid smoking, naked lights or ignition sources.
Other information	 ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ No smoking, naked lights or ignition sources. ▶ Store in a cool, dry, well-ventilated area. ▶ Store away from incompatible materials and foodstuff containers. ▶ Protect containers against physical damage and check regularly for leaks.
Conditions for safe storage,	including any incompatibilities
Suitable container	 ▶ Metal can or drum ▶ Packaging as recommended by manufacturer. ▶ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 ▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. ▶ Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

o Safety glasses with side shields o

Chemical goggles.

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Eye and face protection

Not Available

EMERGENCY LIMITS				
Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Toro Premium Synthetic Bio Hydraulic Fluid	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
Ingredients determined not to be hazardous	Not Available Not Available			
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				

© 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

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	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.
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. 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	No special equipment needed when handling small quantities. OTHERWISE: Overalls. Barrier cream. Eyewash unit.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

A	Links and an limital side wild all all sides	da a a matematic in constant	
Appearance	Light amber liquid with mild, oily odour, does not mix in water.		
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 Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	48.8
Initial boiling point and boiling range (°C)	>316	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>250 (COC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	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)	0 @ 20 deg C	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

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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

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	Although ingestion is not thought to produce harmful following ingestion, especially where pre-existing org	effects (as classified under EC Directives), the material may still be damaging to the health of the individual an (e.g. liver, kidney) damage is evident.	
Skin Contact	The liquid may be miscible with fats or oils and may of unlikely to produce an irritant dermatitis as described	egrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is in EC Directives .	
Еуе	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
0 1		oduce chronic effects adverse to the health (as classified by EC Directives using animal models); neverthele	
Chronic	exposure by all routes should be minimised as a mate	er of course.	
Chronic	exposure by all routes should be minimised as a mate	er of course. IRRITATION	
oro Premium			
oro Premium Synthetic Bio	TOXICITY	IRRITATION	

Toro Premium Synthetic Bio Hydraulic Fluid	Environmental toxcitiy Fish: 100 mg/l Invertebrates: 100 mg/l Aquatic plants: 100 mg/l Microorganism: 100 mg/l		
Acute Toxicity	×	Carcinogenicity	
Skin Irritation/Corro sion	0	Reproductivity	
Serious Eye Damage/Irritatio n	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	O Dete available but does not fill the exitoric for algoritication

Legend: X

- 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

Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12

(QSAR) - Aquatic Toxicity Data (Estimated) 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

DO NOT discharge into sewer or waterways.

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

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

• Reduction •

Reuse

Recycling

o Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type.

Product / Packaging disposal

• DO NOT allow wash water from cleaning or process equipment to enter drains.

- o It may be necessary to collect all wash water for treatment before disposal.
- o 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 or consult manufacturer for recycling options.
- o Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- [®] Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	

Land transport (ADG): 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

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

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Not Applicable

SECTION 15 REGULATORY INFORMATION

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

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
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

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

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 $_{\mbox{\tiny o}}$

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Leve

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: Bio Concentration Factors

BEI: Biological Exposure Index

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