# The Toro Company

# **Toro Premium Synthetic Bio Hydraulic Fluid**

**The Toro Company** 

Chemwatch Hazard Alert Code: 0

Issue Date: 23/12/2022 Print Date: 07/03/2023 S.GHS.USA.EN

Chemwatch: **5230-87**Version No: **4.1**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

### **SECTION 1 Identification**

### **Product Identifier**

Product name	Toro Premium Synthetic Bio Hydraulic Fluid	
Chemical Name	Not Applicable	
Synonyms	Part numbers: 119-2158 and 119-2157,	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

### Recommended use of the chemical and restrictions on use

Relevant identified uses	Hvdraulic fluid.
Relevant lucitinieu uses	i nvuiaulicilulu.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

•		
Registered company name	The Toro Company	
Address	8111 Lyndale Avenue South, Bloomington MN 55420 United States	
Telephone	+1-952-888-8801	
Fax	+1-952-887-8258	
Website	www.toro.com	
Email	HealthAndSafety@toro.com	

### **Emergency phone number**

Association / Organisation	CHEMTEL CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	1-800-255-3924	+1 855-237-5573
Other emergency telephone numbers	+1-813-248-0585	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial  ${\bf 01}$ 

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

### **SECTION 2 Hazard(s) identification**

### Classification of the substance or mixture

### Chemwatch Hazard Ratings

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	0	:	1 = Low
Reactivity	0		2 = Moderate
Chronic	0		3 = High 4 = Extreme



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification Not Applicable

### Label elements

<del></del>		
Hazard pictogram(s)	Not Applicable	
Signal word	Not Applicable	

### Hazard statement(s)

Not Applicable

### Hazard(s) not otherwise classified

Not Applicable

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Precautionary statement(s) Prevention

Not Applicable

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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

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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

### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh 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 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	<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>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

### Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

### **SECTION 5 Fire-fighting measures**

### **Extinguishing media**

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

### Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Fire Fighting

### Special protective equipment and precautions for fire-fighters

### 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 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.

- 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. Fire/Explosion Hazard

- May emit acrid smoke.
- Mists containing combustible materials may be explosive.

Decomposes on heating and produces:

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carbon dioxide (CO2) carbon monoxide (CO) nitrogen oxides (NOx) sulfur oxides (SOx) aldehydes

### **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

### Remove all ignition sources Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. **Minor Spills** Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. ▶ Wipe up. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. **Major Spills** Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources.

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>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure 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.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>	
Storage incompatibility	e incompatibility  Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.  Avoid reaction with oxidising agents	

## 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
Toro Premium Synthetic Bio Hydraulic Fluid	Not Available	Not Available		Not Available
Ingredient Original IDLH Revised IDLH				
Toro Premium Synthetic Bio Hydraulic Fluid	Not Available		Not Available	

### **Exposure 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. Appropriate engineering The basic types of engineering controls are:

controls 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

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ventilation system must match the particular process and chemical or contaminant in use.

# Individual protection measures, such as personal protective equipment







- ► Safety glasses with side shields
  - Chemical goggles

### Eye and face 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 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

### . . .

No special equipment needed when handling small quantities.

# OTHERWISE: • Overalls.

- Other protection
- Barrier cream.
- Eyewash unit.

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

### Information on basic physical and chemical properties

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 (°C)	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	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	ee section 7		
Chemical stability	roduct 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

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	occupational setting.			
Ingestion	Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the heal of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident.			
Skin Contact	The liquid may be able to be mixed with fats or oils an dermatitis. The material is unlikely to produce an irritar	, ,	· ·	
Eye	Although the liquid is not thought to be an irritant (as c characterised by tearing or conjunctival redness (as w	,,	ct contact with the eye may produce transient discomfort	
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.		
	TOXICITY	IRRITATIO	N	
Toro Premium Synthetic Bio	Dermal (None) LD50: >5000 mg/kg <sup>[2]</sup>	Not Availa	ole	
Hydraulic Fluid	Inhalation (None) LC50: >20 mg/l <sup>[2]</sup>			
	Oral (None) LD50: >5000 mg/kg <sup>[2]</sup>			
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			
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	×	Carcinogeni	city X	
Skin Irritation/Corrosion	×	Reproducti	vity X	
Serious Eye Damage/Irritation	×	STOT - Single Expos	ure X	
Respiratory or Skin sensitisation	×	STOT - Repeated Expos	ure X	

Legend:

★ – Data either not available or does not fill the criteria for classification

Data available to make classification

**Aspiration Hazard** 

### **SECTION 12 Ecological information**

Mutagenicity

×

### Toxicity

Toro Premium Synthetic Bio Hydraulic Fluid	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

### DO NOT discharge into sewer or waterways.

### Persistence and degradability

No Data available for all ingredients  No Data available for all ingredients	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

Product / Packaging disposal

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
- 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.

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

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- 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 or consult manufacturer for recycling options.
- 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**

Marine Pollutant

NO

Land transport (DOT): 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

Group

Not Applicable

Product name

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

Transport in bulk in accordance with the IGC Code

Product name Ship Type

### **SECTION 15 Regulatory information**

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

### **Federal Regulations**

Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	
Aspiration Hazard	
Germ cell mutagenicity	
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

### US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

### State Regulations

US. California Proposition 65

None listed

### **National Inventory Status**

National Inventory Status

### Toro Premium Synthetic Bio Hydraulic Fluid

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	23/12/2022
Initial Date	02/12/2016

### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1	23/12/2022	Classification review due to GHS Revision change.

### 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。

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

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