### **SAFETY DATA SHEET**



### Transaqua HT2

### Section 1. Identification

Product name Transaqua HT2
Product code 462602-AU24

**SDS no.** 462602

Use of the substance/mixture Hydraulic fluid

For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

Product type Liquid.

Supplier BP Oil New Zealand Limited

Ground floor and 1st floor Watercare House

73 Remuera Road Newmarket Auckland New Zealand

Phone 09 969 9300

Emergency telephone number 0800 243643 (0800 CHEMHELP) (NZ use only)

**New Zealand National Poisons** 

Centre

0800 764 766 National Poison Centre

OTHER PRODUCT INFORMATION

Technical Helpline 0800 10 40 60

### Section 2. Hazards identification

**HSNO Classification** 6.1 - ACUTE TOXICITY (oral) - Category D

6.4 - EYE IRRITATION - Category A (Irritant)

6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED

EXPOSURE) - Category A

9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category C

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

Routes of entry Dermal contact. Eye contact. Inhalation.

**GHS label elements** 

Signal word Danger

**Hazard statements** Harmful if swallowed.

Causes serious eye irritation.
Causes damage to organs.
Harmful to terrestrial vertebrates.

**Precautionary statements** 

**Prevention** Wear eye or face protection. Avoid release to the environment. Do not breathe

vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after

handling.

Response IF SWALLOWED: Rinse mouth. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed: Call a

POISON CENTER or doctor/physician.

Storage Store locked up.

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### Section 2. Hazards identification

**Disposal** 

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Symbol** 





Other hazards which do not result in classification

Defatting to the skin.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure

constitute a major medical emergency.

See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data

Sheet.

# Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ethylene glycol; ethanediol. Proprietary performance additives.

Ingredient name	%	CAS number
Ethylene glycol 2,2',2"-nitrilotriethanol	20 - 50 1 - 5	107-21-1 102-71-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

**Inhalation** In case of inhalation of decomposition products in a fire, symptoms may be delayed.

If inhaled, remove to fresh air. The exposed person may need to be kept under

medical surveillance for 48 hours. Get medical attention.

**Ingestion** If ingested, call a physician or Poison Control Center immediately. Get medical

attention urgently informing the doctor that a product containing ethylene glycol has been ingested and specific treatment may be required. Transport casualty together with the product container, its label, or the safety data sheet urgently to hospital. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery

position and get medical attention immediately.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Check for and remove any contact lenses. Eyelids should be held away

from the eyeball to ensure thorough rinsing. Get medical attention.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with

extensive subcutaneous necrosis.

Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the

product considerable distances along tissue planes.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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### Section 5. Firefighting measures

**Extinguishing media** 

Suitable In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide

extinguisher or spray.

Not suitable Do not use water jet.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

products

Combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

nitrogen oxides (NO, NO2 etc.)

Hazchem code

Special precautions for fire-

fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire.

Not available.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8). Contact emergency personnel.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. See also Section 8 for additional information on hygiene measures.

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# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Ethylene glycol	NZ HSWA 2015 (New Zealand).  WES-Ceiling: 127 mg/m³ Issued/Revised: 1/1994 Form: Vapour and mists  WES-Ceiling: 50 ppm Issued/Revised: 1/1994 Form: Vapour and mists
2,2',2"-nitrilotriethanol	NZ HSWA 2015 (New Zealand). WES-TWA: 5 mg/m³ 8 hours. Issued/ Revised: 1/1994

# Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

# Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

# **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye protection Hand protection

Safety glasses with side shields.

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Butyl gloves. Neoprene gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves

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## Section 8. Exposure controls/personal protection

should therefore be chosen in consultation with the supplier/manufacturer and with a

full assessment of the working conditions.

**Skin protection** Use of protective clothing is good industrial practice. Cotton or polyester/cotton

overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. The correct

choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/ manufacturer and with a full assessment of the working conditions. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

# Section 9. Physical and chemical properties

**Appearance** 

**Physical state** Liquid.

Colour Brown. [Light] **Odour** Not available. pΗ 8.7 to 9 **Melting point** Not available. **Boiling point** Not available. **Drop Point** Not available.

Flash point Closed cup: Not applicable. [Water content interferes with flash point determination.]

**Vapour pressure** Not available. Vapour density Not available.

**Density** >1000 kg/m³ (>1 g/cm³) at 15°C

Solubility Miscible in water.

**Viscosity** Kinematic: 2.1 to 2.5 mm<sup>2</sup>/s (2.1 to 2.5 cSt) at 40°C

# Section 10. Stability and reactivity

**Chemical stability** The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerisation will not reactions

occur.

**Conditions to avoid** Avoid excessive heat.

Incompatible materials Reactive or incompatible with the following materials: oxidising materials.

**Hazardous decomposition** Under normal conditions of storage and use, hazardous decomposition products

products

should not be produced.

## Section 11. Toxicological information

Information on likely routes of exposure

Inhalation No known significant effects or critical hazards.

Ingestion Harmful if swallowed. Irritating to mouth, throat and stomach. Ethylene glycol:

Ingestion of ethylene glycol can cause metabolic acidosis, kidney damage, central nervous system depression, and convulsions. The estimated human lethal dose is

approximately 100 ml (3.4 ounces for an adult).

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Causes serious eye irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

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## **Section 11. Toxicological information**

**Inhalation** May be harmful by inhalation if exposure to vapour, mists or fumes resulting from

thermal decomposition products occurs.

**Ingestion** Adverse symptoms may include the following:

nausea or vomiting

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

**Eye contact** Adverse symptoms may include the following:

pain or irritation watering redness

#### Potential chronic health effects

General May cause damage to organs through prolonged or repeated exposure. (kidney)

InhalationNot applicable.IngestionNot applicable.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

**Eye contact** Not applicable.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.

**Developmental effects**Birth defects and decreased fetal weight have been observed in laboratory animals

fed ethylene glycol in large amounts repeatedly during pregnancy.

**Fertility effects** No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
<b>Ø</b> ral	1092.7 mg/kg

# **Section 12. Ecological information**

### **Ecotoxicity**

No known significant effects or critical hazards.

#### Persistence and degradability

Expected to be biodegradable.

#### **Bioaccumulative potential**

This product is not expected to bioaccumulate through food chains in the environment.

Product/ingredient name	LogPow	BCF	Potential
Thylene glycol 2,2',2"-nitrilotriethanol	-1.36 -1		low low

#### **Mobility in soil**

**Mobility** Spillages may penetrate the soil causing ground water contamination.

Soil/water partition coefficient (Koc)

Not available.

Other ecological information

Miscible in water.

# Section 13. Disposal considerations

### Disposal methods The generation of waste should be avoided

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or

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# Section 13. Disposal considerations

landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Diluted Fluid Diluted fluid should not be discharged into sewage systems unless provided for by local regulations. Dispose under conditions approved by the local authority or via a licensed waste disposal contractor.

## **Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Additional information
New Zealand Class	Not regulated.	-	-	-	-
ADG Class	Not regulated.	-	-	-	-
IATA Class	Not regulated.	-	-	-	-
IMDG Class	Not regulated.	-	-	-	-

PG\*: Packing group

# Section 15. Regulatory information

### **New Zealand Regulatory Information**

HSNO Approval Number HSR002606

HSNO Group Standard Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary

Hazard) Group Standard 2006

**HSNO Classification** 6.1 - ACUTE TOXICITY (oral) - Category D

6.4 - EYE IRRITATION - Category A (Irritant)

6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED

EXPOSURE) - Category A

9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category C

#### Regulation according to other foreign laws

**REACH Status** For the REACH status of this product please consult your company contact, as

identified in Section 1.

**United States inventory** 

(TSCA 8b)

All components are listed or exempted.

**Australia inventory (AICS)** All components are listed or exempted.

NDSL.

China inventory (IECSC)

Japan inventory (ENCS)

Korea inventory (KECI)

Philippines inventory

At least one component is not listed.

(PICCS)

**Taiwan Chemical** At least one component is not listed.

**Substances Inventory (TCSI)** 

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### Section 16. Other information

**History** 

Date of issue/Date of 1 February 2019

revision

Date of previous issue 27 October 2017.

Version 2.02

Prepared by Not available.

**Key to abbreviations** Varies = may contain one or more of the following 64741-88-4, 64741-89-5,

64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0,

72623-87-1

#### **Notice to reader**

### Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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