SAFETY DATA SHEET



Anvol WG 46

Section 1. Identification

Product name Anvol WG 46
Product code 453017-AU22
SDS no. 453017

Use of the substance/mixture Fire-resistant hydraulic fluid. For specific application advice see appropriate Technical Data

Sheet or consult our company representative heet or consult our company representative.</

S>

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

OTHER PRODUCT Technical Helpline 0800 10 40 60

INFORMATION

Section 2. Hazards identification

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

6.3 - SKIN IRRITATION - Category A

0800 764 766 National Poison Centre

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 skin irritation.
Causes serious eye irritation.
Causes damage to organs.

Harmful to terrestrial vertebrates.

Precautionary statements

Prevention Wear protective gloves. 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.

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Section 2. Hazards identification

Response IF SWALLOWED: Rinse mouth. IF ON SKIN: Take off contaminated clothing and

wash before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. 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.

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

Synthetic lubricant and additives in aqueous solution

Ingredient name	%	CAS number
Ethylene glycol	20 - 50	107-21-1
1-aminopropan-2-ol	1 - 5	78-96-6

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.

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

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Section 4. First aid measures

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-aidersNo 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.

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, CO₂) (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.

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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.

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.

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

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

Safety glasses with side shields.

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Section 8. Exposure controls/personal protection

Hand protection 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 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 Pink.

Odour Not available. 9 to 10 pН

Not available. **Melting point Boiling point** Not available. **Drop Point** Not available.

Flash point Closed cup: >100°C (>212°F) [Estimated. Water content interferes with flash point

determination.1

Not available. Vapour pressure Vapour density Not available.

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

Solubility Soluble in water.

Kinematic: 44.5 to 47.5 mm²/s (44.5 to 47.5 cSt) at 40°C **Viscosity**

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. reactions

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

occur.

Avoid all possible sources of ignition (spark or flame). **Conditions to avoid**

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

Slightly reactive or incompatible with the following materials: acids.

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

products should not be produced.

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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 Causes skin irritation. Defatting to the skin.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

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 redness 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 contactNot applicable.Eye contactNot applicable.

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

Developmental effectsBirth 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
Oral	1034.19 mg/kg
Dermal	79632.54 mg/kg

Section 12. Ecological information

Ecotoxicity No known significant effects or critical hazards.

Persistence and degradability

Not expected to be rapidly degradable.

Bioaccumulative potential

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

Product/ingredient name	LogPow	BCF	Potential
Ethylene glycol	-1.36	-	low
1-aminopropan-2-ol	-0.96		low

Mobility in soil

Mobility Spillages may penetrate the soil causing ground water contamination.

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Section 12. Ecological information

Soil/water partition coefficient (Koc)

Not available.

Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

Section 13. Disposal considerations

Disposal methods

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 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*	Label	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

6.3 - SKIN IRRITATION - Category A

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 active or exempted.

Australia inventory (AICS)

Canada inventory status

China inventory (IECSC)

All components are listed or exempted.

All components are listed or exempted.

All components are listed or exempted.

Japan inventory (ENCS)

All components are listed or exempted.

All components are listed or exempted.

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Section 15. Regulatory information

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory

(PICCS)

All components are listed or exempted.

Taiwan Chemical

Not determined.

Substances Inventory (TCSI)

Section 16. Other information

History

Date of issue/Date of

30 October 2019

revision

Date of previous issue No previous validation.

Version 1

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.

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