



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### Trade name

AD-TEC Brake Fluid Dot 4

#### ▼ Product no.

AYD001, AYD005, AYD500

#### UFI

PE00-E039-C00U-Q02V

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses of the substance or mixture

Hydraulic Fluid

#### Uses advised against

None known.

### 1.3. Details of the supplier of the safety data sheet

#### Company and address

##### **Granville Oil & Chemicals Ltd**

29 Goldthorpe Ind. Est

Goldthorpe

Rotherham

South Yorkshire

S63 9BL

T 01709 890099

##### **Veedol Ireland Ltd**

77 Camden Street Lower

Saint Kevin's

Dublin

Ireland

D02 XE80

T +353 151 363 47

#### E-mail

lab@granvilleoil.com

#### Revision

07/01/2025

#### SDS Version

9.0

#### Date of previous version

15/08/2023 (8.0)

### 1.4. ▼ Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 112 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### 2.1. ▼ Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

Repr. 2; H361fd, Suspected of damaging fertility or the unborn child.

Classification may be based on test results obtained on the final product rather than calculation,

### 2.2. Label elements

#### Hazard pictogram(s)



#### Signal word

Warning

**AD-TEC Brake Fluid Dot 4****▼ Hazard statement(s)**

Causes serious eye irritation. (H319)

Suspected of damaging fertility or the unborn child. (H361fd)

**Precautionary statement(s)****General**

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

**Prevention**

Wash hands thoroughly after handling. (P264)

**Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)

**Storage**

-

**Disposal**Dispose of contents/container in accordance with local regulation  
(P501)**Hazardous substances**

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

**Additional labelling**

Not applicable.

**2.3. Other hazards****▼ Additional warnings**This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.  
Product is not classified as combustible but will burn.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable. This product is a mixture.

**3.2. ▼ Mixtures**

| Product/substance                                    | Identifiers                                                                    | % w/w  | Classification                                                       | Note     |
|------------------------------------------------------|--------------------------------------------------------------------------------|--------|----------------------------------------------------------------------|----------|
| Butyl Triglycol                                      | CAS No.: 143-22-6<br>EC No.: 205-592-6<br>UK-REACH:<br>Index No.: 603-183-00-0 | 25-40% | Eye Dam. 1, H318 (SCL: 30.00 %)<br>Eye Irrit. 2, H319 (SCL: 20.00 %) |          |
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | CAS No.: 30989-05-0<br>EC No.: 250-418-4<br>UK-REACH:<br>Index No.:            | 15-25% | Repr. 2, H361fd                                                      |          |
| 2,2'-oxybisethanol;                                  | CAS No.: 111-46-6<br>EC No.: 203-872-2<br>UK-REACH:<br>Index No.: 603-140-00-6 | 10-15% | Acute Tox. 4, H302                                                   |          |
| 3,6,9,12-tetraoxahexadecan-1-ol                      | CAS No.: 1559-34-8<br>EC No.: 216-322-1<br>UK-REACH:<br>Index No.:             | 5-10%  | Eye Irrit. 2, H319                                                   |          |
| 2-(2-butoxyethoxy)ethanol;                           | CAS No.: 112-34-5<br>EC No.: 203-961-6<br>UK-REACH:                            | 1-3%   | Eye Irrit. 2, H319                                                   | [1], [3] |



|                             |                         |        |                               |          |
|-----------------------------|-------------------------|--------|-------------------------------|----------|
| Index No.: 603-096-00-8     |                         |        |                               |          |
| 2-(2-methoxyethoxy)ethanol; | CAS No.: 111-77-3       | <0.25% | Repr. 1B, H360D (SCL: 3.00 %) | [1], [3] |
|                             | EC No.: 203-906-6       |        |                               |          |
|                             | UK-REACH:               |        |                               |          |
|                             | Index No.: 603-107-00-6 |        |                               |          |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[1] European occupational exposure limit.

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

##### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

If recovery is not rapid, seek medical attention.

##### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

##### Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

##### Ingestion

Provide plenty of water for the person to drink and stay with him/her. Seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

If medical attention is delayed, give adults 90-120 ml hard liquor such as 40% v/v spirits. Give children proportionately less at a rate of 2ml/kg body weight.

##### Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure. The most important symptoms are described in sections 2 and 11.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Treat according to symptoms. There is no specific antidote. Due to the Di-ethylene Glycol content, treatment as for Ethylene Glycol poisoning may help.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbon dioxide, powder, water mist. Waterjets should not be used, since they can spread the fire. However they may be used to cool adjacent containers.

#### 5.2. Special hazards arising from the substance or mixture

**AD-TEC Brake Fluid Dot 4**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

Prevent unnecessary personnel entering area of a spill. When cleaning up large spills appropriate protective clothing should be worn - see section 8.

**6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

**6.3. Methods and material for containment and cleaning up**

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

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.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

**SECTION 7: Handling and storage****7.1. ▼Precautions for safe handling**

Avoid any method of handling that generates mists or aerosols.

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Do not eat, drink or smoke when handling this product.

See section 8 "Exposure controls/personal protection" for information on personal protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Recommended storage material**

Always store in containers of the same material as the original container.

**Storage conditions**

Room temperature 15 to 30°C

**Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2.

Users are referred to the specification SAE J1707 "Service maintenance of brake fluids".

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

2,2'-oxybisethanol;

Long term exposure limit (8 hours) (ppm): 23

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 101

2-(2-butoxyethoxy)ethanol;



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Long term exposure limit (8 hours) (ppm): 10  
 Long term exposure limit (8 hours) (mg/m³): 67,5  
 Short term exposure limit (15 minutes) (ppm): 15  
 Short term exposure limit (15 minutes) (mg/m³): 101,2

2-(2-methoxyethoxy)ethanol;  
 Long term exposure limit (8 hours) (ppm): 10  
 Long term exposure limit (8 hours) (mg/m³): 50,1  
 Annotations:  
 Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
 EH40/2005 Workplace exposure limits (Fourth Edition 2020).

**DNEL**

2-(2-butoxyethoxy)ethanol;

| Duration:                              | Route of exposure: | DNEL:         |
|----------------------------------------|--------------------|---------------|
| Long term – Systemic effects - Workers | Dermal             | 20mg/kgBW/day |
| Long term – Systemic effects - Workers | Inhalation         | 67mg/m3       |

2-(2-methoxyethoxy)ethanol;

| Duration:                              | Route of exposure: | DNEL:             |
|----------------------------------------|--------------------|-------------------|
| Long term – Systemic effects - Workers | Dermal             | 2.22 mg/kg bw/day |
| Long term – Systemic effects - Workers | Inhalation         | 50.1 mg/m³        |

2,2' -oxybisethanol;

| Duration:                              | Route of exposure: | DNEL:           |
|----------------------------------------|--------------------|-----------------|
| Long term – Systemic effects - Workers | Dermal             | 43 mg/kg bw/day |
| Long term – Systemic effects - Workers | Inhalation         | 44 mg/m³        |

Butyl Triglycol

| Duration:                              | Route of exposure: | DNEL:         |
|----------------------------------------|--------------------|---------------|
| Long term – Systemic effects - Workers | Dermal             | 50mg/kgBW/day |
| Long term – Systemic effects - Workers | Inhalation         | 195mg/m3      |

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

| Duration:                              | Route of exposure: | DNEL:           |
|----------------------------------------|--------------------|-----------------|
| Long term – Systemic effects - Workers | Dermal             | 8.3 mg/kgBW/day |
| Long term – Systemic effects - Workers | Inhalation         | 29.1 mg/m3      |

**P EC**

2-(2-butoxyethoxy)ethanol;

| Route of exposure:     | Duration of Exposure: | PNEC:   |
|------------------------|-----------------------|---------|
| Sewage treatment plant | Continuous            | 200mg/L |
| Water                  | Single                | 3.9mg/L |

2-(2-methoxyethoxy)ethanol;

| Route of exposure:     | Duration of Exposure: | PNEC:     |
|------------------------|-----------------------|-----------|
| Sewage treatment plant |                       | 10000mg/L |
| Water                  | Single                | 12mg/L    |

2,2' -oxybisethanol;

| Route of exposure:     | Duration of Exposure: | PNEC:     |
|------------------------|-----------------------|-----------|
| Sewage treatment plant | Continuous            | 199.5mg/L |
| Water                  | Single                | 10mg/L    |


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Butyl Triglycol

| Route of exposure:     | Duration of Exposure: | PNEC:   |
|------------------------|-----------------------|---------|
| Sewage treatment plant | Continuous            | 200mg/L |
| Water                  | Single                | 5mg/L   |

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

| Route of exposure:     | Duration of Exposure: | PNEC:      |
|------------------------|-----------------------|------------|
| Sewage treatment plant | Continuous            | 100 mg/l   |
| Water                  | Single                | 2.112 mg/l |

## 8.2. ▼ Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Do not eat, drink or smoke when handling this product.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### ▼ Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### Measures to avoid environmental exposure

Keep spill absorbent materials available in the workplace. If possible, clean up any spills immediately.

## Individual protection measures, such as personal protective equipment

### Generally

Use only UKCA marked protective equipment.

### Respiratory Equipment

No specific requirements

### Skin protection

No specific requirements.

### Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards               |                                                                                       |
|----------|----------------------|--------------------------|-------------------------|---------------------------------------------------------------------------------------|
| Butyl    | 0,3                  | > 480                    | EN374-2, EN374-3, EN388 |  |
| Nitrile  | 0,2                  | > 480                    | EN374-2, EN374-3, EN388 |  |

### Eye protection

| Type                                   | Standards |                                                                                       |
|----------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Wear safety glasses with side shields. | EN166     |  |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state**

Liquid

**Colour**

Amber

**Odour / Odour threshold**

Mild

**pH**

7-10.5

**Density (g/cm<sup>3</sup>)**

1.01-1.06

**Kinematic viscosity**

5-10 centistokes (20 °C)

**Particle characteristics**

Does not apply to liquids.

**Phase changes****Melting point/Freezing point (°C)**

&lt; -50

**Softening point/range (°C)**

Does not apply to liquids.

**Boiling point (°C)**

&gt;210

**Vapour pressure**

1 millibar

**▼ Relative vapour density**

No relevant or available data due to the nature of the product.

**Decomposition temperature (°C)**

300

**Data on fire and explosion hazards****Flash point (°C)**

&gt;100

**▼ Flammability (°C)**

No relevant or available data due to the nature of the product.

**Auto-ignition temperature (°C)**

&gt;280

**▼ Lower and upper explosion limit (% v/v)**

No relevant or available data due to the nature of the product.

**Solubility****Solubility in water**

Completely soluble

**n-octanol/water coefficient (LogKow)**

1.5

**▼ Solubility in fat (g/L)**

No relevant or available data due to the nature of the product.

**9.2. Other information****Evaporation rate (n-butylacetate = 100)**

0.01

**Other physical and chemical parameters**

No data available.

**▼ Oxidizing properties**

No relevant or available data due to the nature of the product.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions if stored and handled as indicated.

**10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**10.3. Possibility of hazardous reactions**



None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. ▼Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Based on available data, the classification criteria are not met.

Oral -Based on read across data toxicity is low (LD 50 Rat >5000 mg/kg). Sparse experience indicates toxicity in man could be greater.

Inhalation - Not applicable due to low vapour pressure of product.

Dermal - Based on read across data toxicity is low (LD 50 Rabbit >3000 mg/kg).

General - Although acute toxicity of this product is low, if significant amounts are absorbed there is a risk of renal damage which could lead to kidney failure or even death. Other symptoms of overexposure include Central Nervous System effects, abdominal discomfort, metabolic acidosis and headache or nausea.

##### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

However, repeated contact may de-fat the skin and cause dermatitis.

##### Serious eye damage/irritation

Causes serious eye irritation.

##### Respiratory sensitisation

Based on available data, the classification criteria are not met.

##### Skin sensitisation

Based on available data, the classification criteria are not met.

##### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

##### Carcinogenicity

Based on available data, the classification criteria are not met.

##### ▼Reproductive toxicity

Suspected of damaging fertility or the unborn child.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

##### ▼Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

##### Other information

None known.

### SECTION 12: Ecological information

#### 12.1. Toxicity



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Product is of low ecotoxicity

Fish 96h LC50 >100mg/l (Oncorhynchus Mykiss)

Daphnia 48h EC50 Not determined but expected to be virtually non-toxic

Algae 72h EC50 Not determined but expected to be virtually non-toxic

**12.2. Persistence and degradability**

Product is inherently biodegradable and is expected to be readily biodegradable based on ingredients (OECD 302B).

If admitted into adapted biological water treatment plants no adverse effects of the degrading action of the live sludge are expected.

**12.3. Bioaccumulative potential**

Not expected to Bio-accumulate. Log POW for all main ingredients <2.0

**12.4. Mobility in soil**

Product is soluble in water and will be mobile in soil until degraded. Volatilisation from water to air not expected.

**12.5. ▼Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. ▼Endocrine disrupting properties**

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

**12.7. Other adverse effects**

None known.

**SECTION 13: Disposal considerations**

**13.1. ▼Waste treatment methods**

Product is covered by the regulations on hazardous waste. (\*)

HP 4 - Irritant (skin irritation and eye damage)

HP 10 – Toxic for reproduction

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Dispose of in accord with local and national regulations. Recycling or incineration with energy recovery are recommended.

**▼EWC code**

16 01 13\* Brake fluids

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: Transport information**

|      | 14.1                            | 14.2 | 14.3             | 14.4 | 14.5  | Other        |
|------|---------------------------------|------|------------------|------|-------|--------------|
|      | UN / ID UN proper shipping name |      | Hazard class(es) | PG*  | Env** | information: |
| ADR  | -                               | -    | -                | -    | -     | -            |
| IMDG | -                               | -    | -                | -    | -     | -            |
| IATA | -                               | -    | -                | -    | -     | -            |

\* Packing group

\*\* Environmental hazards

**Additional information**

Not dangerous goods according to ADR, IATA and IMDG.

**14.6. Special precautions for user**

Not applicable.

**14.7. Maritime transport in bulk according to IMO instruments**

No data available.

**SECTION 15: Regulatory information**

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

**Restrictions for application**

**AD-TEC Brake Fluid Dot 4**

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**Demands for specific education**

No specific requirements.

**SEVESO - Categories / dangerous substances**

Not applicable.

**▼ REACH, Annex XVII**

2-(2-butoxyethoxy)ethanol; is subject to restrictions, UK-REACH annex XVII (entry 55).

2-(2-methoxyethoxy)ethanol; is subject to restrictions, UK-REACH annex XVII (entry 54).

**Additional information**

Tactile warning.

**Sources**

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information****▼ Full text of H-phrases as mentioned in section 3**

H302, Harmful if swallowed.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H360D, May damage the unborn child.

H361fd, Suspected of damaging fertility or the unborn child.

**▼ Abbreviations and acronyms**

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit



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SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

**Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

This data sheet is available in other European Languages.

Data sheets for other areas of the Globe may be available on request.

The information contained herein is based on the present knowledge and experience of Granville Oil and Chemicals Ltd. It in no way constitutes the user's own assessment of workplace risk as required by other Health and Safety legislation. Granville Oil and Chemicals Ltd. does not, by supplying this information, guarantee or warrant any specific properties or qualities of goods supplied. It is the responsibility of the purchaser to determine whether the goods ordered are fit for any purpose for which they may be required.

This information is provided subject to Granville Oil and Chemicals Ltd Conditions of Sale, and in particular Conditions 9 and 14 thereof.

**The safety data sheet is validated by**

Christopher Coulthard

**▼ Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en