# Anti Rust 1 DWS - Anti corrosive fluid

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## SECTION 1: IDENTIFICATION

**1.1 Product identifier:** Anti Rust 1 DWS - Anti corrosive fluid

**Other means of identification:**

Not relevant

**1.2 Recommended use of the chemical and restrictions on use:**

Relevant uses (Professional users): Corrosion inhibitor
Relevant uses (Industrial user): Corrosion inhibitor
For Professional users/Industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Details of manufacturer or importer:**

Matrix Specialty Lubricants
Typograaf 16
6921 VB Duiven - The Netherlands
Phone: +31316740850
lab@matrix-lubricants.com
https://www.matrix-lubricants.com

Australian contact: Hales Australia
45 Woodlands Drive
Braeside VIC 3195 Australia
Tel: 03 8587 1600
info@hales.com.au

**1.4 Emergency phone number:** Poisons Information Centre 13 11 26

## SECTION 2: HAZARD(S) IDENTIFICATION

**2.1 Classification of the hazardous chemical:**

**WHS:**

Classification of this product has been carried out in accordance with Model Work Health and Safety Regulations(Hazardous Chemicals) Amendment 2022

Acute Tox. 3: Acute inhalation toxicity, Category 3, H331
Asp. Tox. 1: Aspiration hazard, Category 1, H304
Flam. Liq. 3: Flammable liquids, Category 3, H226

**2.2 Label elements, including precautionary statements:**

**WHS:**

**Danger**

**Hazard statements:**

H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H331 - Toxic if inhaled.

**Precautionary statements:**

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## SECTION 2: HAZARD(S) IDENTIFICATION (continued)

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents and / or their container according to the separated collection system used in your municipality.

**Supplementary information:**

AUH066: Repeated exposure may cause skin dryness or cracking.

**Substances that contribute to the classification**

C10-12 ALKANE/CYCLOALKANE (CAS: 64742-48-9) (60 - <100 %); BUTOXYETHANOL (CAS: 111-76-2) (<10 %)

**2.3 Other hazards which do not result in classification:**

Not relevant

## SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8

**3.1 Substances:**

Not relevant

**3.2 Mixtures:**

**Chemical description:** Miscellaneous products

**Components:**

In accordance with Schedule 8 (WHS Regulations), the product contains:

| Identification | Chemical name | Concentration |
|---|---|---|
| CAS: 64742-48-9 | **Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7** | **60 - <100 %** |
| CAS: 68608-26-4 | **Sulfonic acids, petroleum, sodium salts** | **<10 %** |
| CAS: 111-76-2 | **2-butoxyethanol** | **<10 %** |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

## SECTION 4: FIRST AID MEASURES

**4.1 Description of necessary first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

Remove the affected person from the area of exposure, provide them with fresh air, and keep them at rest. In severe cases such as cardiorespiratory arrest, administer artificial respiration techniques if properly trained (CPR, oxygen provision, etc.) and seek immediate medical assistance.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

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## SECTION 4: FIRST AID MEASURES (continued)

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

**4.2 Symptoms caused by exposure:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Medical attention and special treatment:**

Not relevant

## SECTION 5: FIREFIGHTING MEASURES

**5.1 Suitable extinguishing equipment:**

**Suitable extinguishing media:**

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

**Unsuitable extinguishing media:**

Water jet

**5.2 Specific hazards arising from the chemical:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Special protective equipment and precautions for fire fighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**6.3 Methods and materials for containment and cleaning up:**

It is recommended:

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## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

**6.4 Reference to other sections:**

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,…) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Specific storage requirements

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**8.1 Exposure control measures:**

Substances whose occupational exposure limits have to be assessed in the workplace:

Workplace Exposure Standards for Airborne Contaminants 01/10/2022:

| Identification | Occupational exposure limits | | |
|---|---|---|---|
| 2-butoxyethanol (1) | TWA | 20 ppm | 96.9 mg/m³ |
| CAS: 111-76-2 | STEL | 50 ppm | 242 mg/m³ |

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## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued)

(1) Skin

**8.2 Engineering controls:**

A.- Individual protection measures, for example personal protective equipment (PPE)

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using individual protection equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

| Pictogram | PPE | Remarks |
|---|---|---|
|  Mandatory hand protection | Chemical protective gloves (Material: Butyl, Breakthrough time: > 240 min) | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram | PPE | Remarks |
|---|---|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. | Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. |

E.- Bodily protection

| Pictogram | PPE | Remarks |
|---|---|---|
| | Work clothing | Replace before any evidence of deterioration. |
| | Anti-slip work shoes | Replace before any evidence of deterioration. |

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|---|---|
|  Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

| | |
|---|---|
| Physical state at 20 ºC: | Liquid |
| Appearance: | Oily |
| Color: | Amber |
| Odor: | Characteristic |
| Odour threshold: | Not relevant * |

**Volatility:**

| | |
|---|---|
| Boiling point at atmospheric pressure: | Not relevant * |
| Vapour pressure at 20 ºC: | Not relevant * |
| Vapour pressure at 50 ºC: | 107.66 Pa (0.11 kPa) |
| Evaporation rate at 20 ºC: | Not relevant * |

**Product description:**

| | |
|---|---|
| Density at 20 ºC: | 770 - 810 kg/m³ |
| Relative density at 20 ºC: | Not relevant * |
| Dynamic viscosity at 20 ºC: | Not relevant * |
| Kinematic viscosity at 20 ºC: | Not relevant * |
| Kinematic viscosity at 40 ºC: | Not relevant * |
| Concentration: | Not relevant * |
| pH: | Not relevant * |
| Vapour density at 20 ºC: | Not relevant * |
| Partition coefficient n-octanol/water 20 ºC: | Not relevant * |
| Solubility in water at 20 ºC: | Not relevant * |
| Solubility properties: | Insoluble in water |
| Decomposition temperature: | Not relevant * |
| Melting point/freezing point: | Not relevant * |

**Flammability:**

| | |
|---|---|
| Flash Point: | 40 - 50 ºC |
| Flammability (solid, gas): | Not relevant * |
| Autoignition temperature: | Not relevant * |
| Lower flammability limit: | Not relevant * |
| Upper flammability limit: | Not relevant * |

**Particle characteristics:**

| | |
|---|---|
| Median equivalent diameter: | Not relevant * |

**9.2 Other information:**

**Information with regard to physical hazard classes:**

| | |
|---|---|
| Explosive properties: | Not relevant * |
| Oxidising properties: | Not relevant * |
| Corrosive to metals: | Not relevant * |
| Heat of combustion: | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

**Other safety characteristics:**

*Not relevant due to the nature of the product, not providing information property of its hazards.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|---|---|
| Surface tension at 20 ºC: | Not relevant * |
| Refraction index: | Not relevant * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|---|---|---|---|---|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

| Acids | Water | Oxidising materials | Combustible materials | Others |
|---|---|---|---|---|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide ($CO_2$), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Inhalation after prolonged exposure may be lethal.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (3); 2-butoxyethanol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

May be fatal if swallowed and enters airways.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7<br>CAS: 64742-48-9 | LD50 oral | 15000 mg/kg | Rat |
| | LD50 dermal | 3160 mg/kg | Rabbit |
| | LC50 inhalation | | |
| Sulfonic acids, petroleum, sodium salts<br>CAS: 68608-26-4 | LD50 oral | >5000 mg/kg | Rat |
| | LD50 dermal | >5000 mg/kg | Rabbit |
| | LC50 inhalation | | |
| 2-butoxyethanol<br>CAS: 111-76-2 | LD50 oral | 1200 mg/kg | Rat |
| | LD50 dermal | 3000 mg/kg | Rabbit |
| | LC50 inhalation vapour | 2.25 mg/L | Guinean pig |

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**12.1 Ecotoxicity:**

**Acute toxicity:**

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7<br>CAS: 64742-48-9 | LC50 | 2200 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 1000 mg/L (96 h) | Daphnia magna | Crustacean |
| | EC50 | Not relevant | | |

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| 2-butoxyethanol | LC50 | 1490 mg/L (96 h) | Lepomis macrochirus | Fish |
| CAS: 111-76-2 | EC50 | 1815 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 911 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |

**Chronic toxicity:**

| Identification | Concentration | | Species | Genus |
|---|---|---|---|---|
| 2-butoxyethanol | NOEC | 100 mg/L | Danio rerio | Fish |
| CAS: 111-76-2 | NOEC | 100 mg/L | Daphnia magna | Crustacean |

**12.2 Persistence and degradability:**

**Substance-specific information:**

| Identification | Degradability | | Biodegradability | |
|---|---|---|---|---|
| Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 | BOD5 | Not relevant | Concentration | Not relevant |
| CAS: 64742-48-9 | COD | Not relevant | Period | 28 days |
| | BOD5/COD | Not relevant | % Biodegradable | 89.9 % |
| 2-butoxyethanol | BOD5 | 0.71 g O2/g | Concentration | 100 mg/L |
| CAS: 111-76-2 | COD | 2.2 g O2/g | Period | 14 days |
| | BOD5/COD | 0.32 | % Biodegradable | 96 % |

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

| Identification | Bioaccumulation potential | |
|---|---|---|
| 2-butoxyethanol | BCF | 3 |
| CAS: 111-76-2 | Pow Log | 0.83 |
| | Potential | Low |

**12.4 Mobility in soil:**

| Identification | Absorption/desorption | | Volatility | |
|---|---|---|---|---|
| Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 | Koc | 100 | Henry | Not relevant |
| CAS: 64742-48-9 | Conclusion | High | Dry soil | Not relevant |
| | Surface tension | Not relevant | Moist soil | Not relevant |
| 2-butoxyethanol | Koc | 8 | Henry | 1.621E-1 Pa·m³/mol |
| CAS: 111-76-2 | Conclusion | Very High | Dry soil | Not relevant |
| | Surface tension | 2.729E-2 N/m (25 ºC) | Moist soil | Yes |

Insoluble in water

**12.5 Results of PBT and vPvB assessment:**

Not relevant

**12.6 Other adverse effects:**

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Disposal methods:**

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See epigraph 6.2.

**Regulations related to waste management:**

Legislation related to waste management:

Basel Convention (Hazardous Waste)
Hazardous Waste (Regulation of Exports and Imports) Act 1989 and Amendments

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## SECTION 14: TRANSPORT INFORMATION

**Transport of dangerous goods by land:**

With regard to ADG Code:

| | | |
|---|---|---|
| **14.1** | **UN number:** | UN1992 |
| **14.2** | **Proper shipping name or Technical Name:** | FLAMMABLE LIQUID, TOXIC, N.O.S. (2-butoxyethanol) |
| **14.3** | **Transport hazard class:** | 3 |
| | Labels: | 3, 6.1 |
| **14.4** | **Packing Group:** | III |
| **14.5** | **Environmental hazards for Transport Purposes:** | No |
| **14.6** | **Special precautions for user** | |
| | Physico-Chemical properties: | see section 9 |
| **14.7** | **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** | Not relevant |

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

| | | |
|---|---|---|
| **14.1** | **UN number:** | UN1992 |
| **14.2** | **Proper shipping name or Technical Name:** | FLAMMABLE LIQUID, TOXIC, N.O.S. (2-butoxyethanol) |
| **14.3** | **Transport hazard class:** | 3 |
| | Labels: | 3, 6.1 |
| **14.4** | **Packing Group:** | III |
| **14.5** | **Marine pollutant:** | No |
| **14.6** | **Special precautions for user** | |
| | Special regulations: | 274, 223 |
| | EmS Codes: | F-E, S-D |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | 5 L |
| | Segregation group: | Not relevant |
| **14.7** | **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** | Not relevant |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:

| | | |
|---|---|---|
| **14.1** | **UN number:** | UN1992 |
| **14.2** | **Proper shipping name or Technical Name:** | FLAMMABLE LIQUID, TOXIC, N.O.S. (2-butoxyethanol) |
| **14.3** | **Transport hazard class:** | 3 |
| | Labels: | 3, 6.1 |
| **14.4** | **Packing Group:** | III |
| **14.5** | **Environmental hazards for Transport Purposes:** | No |
| **14.6** | **Special precautions for user** | |
| | Physico-Chemical properties: | see section 9 |
| **14.7** | **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** | Not relevant |

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## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations:**

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Industrial Chemicals Act 2019:**

Industrial Chemicals (Notification and Assessment) Act 1989

## SECTION 16: OTHER INFORMATION

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with WHS regulations and Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals.

**Texts of the legislative phrases mentioned in section 2:**

H331: Toxic if inhaled.
H304: May be fatal if swallowed and enters airways.
H226: Flammable liquid and vapour.

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

http://www.safeworkaustralia.gov.au/

**Abbreviations and acronyms:**

ADG: Australian Code for the Transport of Dangerous Goods by Road and Rail
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer



END OF SAFETY DATA SHEET