



SAFETY DATA SHEET RED ANTI FREEZE

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

1.1. Product identifier

| | |
|-----------------------|-----------------|
| Product name | RED ANTI FREEZE |
| Product number | 15104 |
| Synonyms; trade names | ANTIFREEZE OAT |

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

| | |
|-----------------|---------------------------------------------|
| Identified uses | Antifreeze liquid. Antifreeze for vehicles, |
|-----------------|---------------------------------------------|

1.3. Details of the supplier of the safety data sheet

| | |
|----------|-----------------------------------------------------------------------------|
| Supplier | Talbot Chemicals Ltd Telford Drive Newark Nottinghamshire NG24 2DX |
|----------|-----------------------------------------------------------------------------|

+44 1636 611707

1.4. Emergency telephone number

| | |
|---------------------|--------------------------------|
| Emergency telephone | SGS - +32 (0)3 575 55 55 (24h) |
|---------------------|--------------------------------|

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|---------|-------|
| Sds No. | 15104 |
|---------|-------|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | |
|-----------------------|--------------------------------------|
| Physical hazards | Not Classified |
| Health hazards | Acute Tox. 4 - H302 STOT RE 2 - H373 |
| Environmental hazards | Not Classified |

2.2. Label elements

Hazard pictograms



| | |
|-------------|---------|
| Signal word | Warning |
|-------------|---------|

| | |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Hazard statements | H302 Harmful if swallowed. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure. |
|-------------------|-----------------------------------------------------------------------------------------------------------------|

RED ANTI FREEZE

Precautionary statements

P260 Do not breathe vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
 P314 Get medical advice/ attention if you feel unwell.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains ETHANEDIOL

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|----------------------|--------------------------------------------------|
| ETHANEDIOL | 45 - 100% |
| CAS number: 107-21-1 | EC number: 203-473-3 |
| | REACH registration number: 01-2119456816-28-XXXX |

Classification

Acute Tox. 4 - H302
 STOT RE 2 - H373

2-ETHYLHEXANOIC ACID, SODIUM SALT

<4%

CAS number: 19766-89-3

EC number: 243-283-8

REACH registration number: 01-2119488942-23-XXXX

Classification

Repr. 2 - H361d

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

Ingestion Harmful if swallowed. Ingestion of large amounts may cause unconsciousness. Causes damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

Skin contact Prolonged skin contact may cause redness and irritation.

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Eye contact May cause temporary eye irritation.

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

Notes for the doctor If several ounces (60 - 100 ml) of ethylene glycol have been ingested, early administration of ethanol may counter the toxic effects (metabolic acidosis, renal damage). Consider hemodialysis or peritoneal dialysis & thiamine 100 mg plus pyridoxine 50 mg intravenously every 6 hours. If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150 mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or methanol intoxication if available. Fomepizole protocol: loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. In severe poisoning, respiratory support with mechanical ventilation and positive end expiratory pressure may be required. Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. If burn is present, treat as any thermal burn, after decontamination. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Ketones. Aldehydes.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

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Methods for cleaning up Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate
Sk

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour
Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

Ingredient comments WEL = Workplace Exposure Limits

ETHANEDIOL (CAS: 107-21-1)

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingredient comments | WEL = Workplace Exposure Limits |
| DNEL | Industry - Inhalation; Short term : 35 mg/m ³ Industry - Dermal; Long term : 106 mg/kg/day Consumer - Dermal; Long term : 53 mg/kg/day Consumer - Inhalation; Long term : 7 mg/m ³ |
| PNEC | - Fresh water; 10 mg/l - marine water; 1 mg/l - Soil; 1.53 mg/kg - STP; 199.5 mg/l - Sediment (Freshwater); 37 mg/kg - Sediment (Marinewater); 3.7 mg/kg - Intermittent release; 10 mg/l |

8.2. Exposure controls

Protective equipment



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| Appropriate engineering controls | Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. |
| Eye/face protection | The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166. |
| Hand protection | Use protective gloves. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Butyl rubber. Polyvinyl chloride (PVC). To protect hands from chemicals, gloves should comply with European Standard EN374. |
| Other skin and body protection | Wear suitable protective clothing as protection against splashing or contamination. |
| Hygiene measures | Eating, smoking and water fountains prohibited in immediate work area. |
| Respiratory protection | If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. EN 136/140/141/145/143/149 |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|-----------------------------------------------------|---------------------------|
| Appearance | Red liquid. |
| Colour | Various colours. |
| Odour | Mild. |
| Odour threshold | No information available. |
| pH | No information available. |
| Melting point | No information available. |
| Initial boiling point and range | No information available. |
| Flash point | No information available. |
| Evaporation rate | No information available. |
| Evaporation factor | No information available. |
| Flammability (solid, gas) | No information available. |
| Upper/lower flammability or explosive limits | No information available. |
| Other flammability | No information available. |
| Vapour pressure | No information available. |
| Vapour density | No information available. |
| Relative density | 1.06 - 1.14 |
| Bulk density | No information available. |
| Solubility(ies) | Soluble in water. |
| Partition coefficient | Not available. |
| Auto-ignition temperature | No information available. |
| Decomposition Temperature | No information available. |

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| Respiratory sensitisation | No information available. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | No information available. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | No information available. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | No information available. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | No information available. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | No information available. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | No information available. |
| <u>Inhalation</u> | |
| Inhalation | Vapour may irritate respiratory system/lungs. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression. |
| <u>Ingestion</u> | |
| Ingestion | Harmful if swallowed. May cause liver and/or renal damage. May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. |
| <u>Skin contact</u> | |
| Skin contact | Prolonged and frequent contact may cause redness and irritation. |
| <u>Eye contact</u> | |
| Eye contact | May cause temporary eye irritation. |
| <u>Target organs</u> | |
| Target organs | Liver Kidneys |

Toxicological information on ingredients.

ETHANEDIOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,600.0

Species Human

Notes (oral LD₅₀) Harmful if swallowed.
LD₅₀ 1600 mg/kg, Oral, Human

ATE oral (mg/kg) 1,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 3,500.0

Species Mouse

Notes (dermal LD₅₀) LD₅₀ 3500 mg/kg, Dermal, Mouse

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| ATE dermal (mg/kg) | 3,500.0 |
| <u>Acute toxicity - inhalation</u> | |
| Acute toxicity inhalation (LC₅₀ vapours mg/l) | 2.5 |
| Notes (inhalation LC₅₀) | LD ₅₀ > 2.5 mg/l, Inhalation, Rat |
| ATE inhalation (vapours mg/l) | 2.5 |
| <u>Skin corrosion/irritation</u> | |
| Animal data | Not irritating. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Not irritating. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | Not sensitising. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Not sensitising. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vivo | This substance has no evidence of mutagenic properties. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | There is no evidence that the product can cause cancer. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - development | Symptoms following overexposure may include the following: Possible risk of adverse reproductive effects. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | No information available. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. |
| Target organs | Kidneys |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | No information available. |
| <u>Inhalation</u> | |
| Inhalation | Vapour may irritate respiratory system/lungs. |
| <u>Ingestion</u> | |
| Ingestion | Harmful if swallowed. Lethal dose to humans 100ml |
| <u>Skin contact</u> | |
| Skin contact | Prolonged and frequent contact may cause redness and irritation. |
| <u>Eye contact</u> | |
| Eye contact | May cause temporary eye irritation. |
| <u>Acute and chronic health hazards</u> | |
| Acute and chronic health hazards | May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. |

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Target organs

Liver Kidneys

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.

ETHANEDIOL

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Toxicity No data available.

Ecological information on ingredients.

ETHANEDIOL

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 6500 - 13000 mg/l,

Acute toxicity - microorganisms EC₅₀, 30 minutes: 225 mg/l, Activated sludge

2-ETHYLHEXANOIC ACID, SODIUM SALT

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Oryzias latipes (Red killifish) OECD 203

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 910 mg/l, Daphnia magna OECD 202

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 18 mg/l, Daphnia magna OECD 211

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

Ecological information on ingredients.

ETHANEDIOL

Persistence and degradability The substance is readily biodegradable.

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Biodegradation - Degradation (%) 90%: > 10 days
OECD 301A

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient Not available.

Ecological information on ingredients.

ETHANEDIOL

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Kow: -1.36

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

ETHANEDIOL

Mobility The product is soluble in water.

Adsorption/desorption coefficient Water - Koc: 1 @ °C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

ETHANEDIOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

2-ETHYLHEXANOIC ACID, SODIUM SALT

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

Ecological information on ingredients.

ETHANEDIOL

Cod 1.22

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

RED ANTI FREEZE

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

**Restrictions (Annex XVII
Regulation 1907/2006)**

This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

RED ANTI FREEZE

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| Abbreviations and acronyms used in the safety data sheet | <p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>cATpE: Converted Acute Toxicity Point Estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>DMEL: Derived Minimal Effect Level.</p> <p>EL50: Exposure Limit 50</p> <p>hPa: Hectopascal</p> <p>LL50: Lethal Loading fifty</p> <p>OECD: Organisation for Economic Co-operation and Development</p> <p>POW: Octanol-water partition coefficient</p> <p>SCBA: self-contained breathing apparatus</p> <p>STP: Sewage Treatment Plant</p> <p>VOC: Volatile Organic Compounds</p> |
| Classification abbreviations and acronyms | <p>Acute Tox. = Acute toxicity</p> <p>Aquatic Acute = Hazardous to the aquatic environment (acute)</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p> |
| Key literature references and sources for data | Supplier's information. |
| Classification procedures according to Regulation (EC) 1272/2008 | Acute Tox. 4 - H302: Calculation method. STOT RE 2 - H373: Calculation method. |
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date | 08/01/2025 |

RED ANTI FREEZE

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version number | 1.002 |
| Supersedes date | 25/10/2017 |
| SDS number | 15104 |
| SDS status | Approved. |
| Hazard statements in full | H302 Harmful if swallowed. H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. |
| Signature | Jitendra Panchal |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.