

SAFETY DATA SHEET

Bijlard Floor Epoxy Scherm A component

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

1.1. Product identifier

Product name Bijlard Floor Epoxy Scherm A component

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

Identified uses For use in industrial installations or professional treatment only. For use in a two part Epoxy impregnation system

Uses advised against Consumer and DIY uses

1.3. Details of the supplier of the safety data sheet

Supplier Bijlard International B.V.
Platinastraat 141
2718 SR Zoetermeer
The Netherlands
Tel: +31 79 343 7538
Fax: +31 79 343 7539
info@bijlard.com

1.4. Emergency telephone number

Emergency telephone Monday - Friday (8.15am-4.45pm) +31 79 343 7538

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

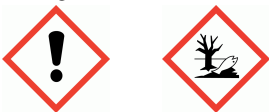
Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P261 Avoid breathing vapour/ spray.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p>
Supplemental label information	EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains	reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700), reaction product:bisphenol-F-(epichlorohydrin) epoxy resin (Number average MW <=700), 1,6-bis(2,3-epoxypropoxy)hexane
Supplementary precautionary statements	<p>P391 Collect spillage.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>

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

reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700)	30-60%
CAS number: 25068-38-6 EC number: 500-033-5 REACH registration number: 01-2119456619-26-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
1,6-bis(2,3-epoxypropoxy)hexane	10-30%
CAS number: 16096-31-4 EC number: 240-260-4 REACH registration number: 01-2119463471-41-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	

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reaction product:bisphenol-F-(epichlorohydrin) epoxy resin			10-30%
(Number average MW <=700)			
CAS number: 9003-36-5	EC number: 500-006-8	REACH registration number: 01-2119454392-40-XXXX	
Classification			
Skin Irrit. 2 - H315			
Skin Sens. 1 - H317			
Aquatic Chronic 2 - H411			

The Full Text for all R-Phrases and Hazard Statements are 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

General information	Consult a physician for specific advice.
Inhalation	Move affected person to fresh air at once.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. 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

General information	Get medical attention promptly if symptoms occur after washing.
Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Prolonged contact may cause redness and/or tearing.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Stop flow of material to fire. Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Water spray. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Does not decompose when used and stored as recommended. No unusual fire or explosion hazards noted.
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Hazardous combustion products Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. Keep up-wind to avoid fumes. Containers close to fire should be removed or cooled with water. Control run-off water by containing and keeping it out of sewers and watercourses.

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 Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. 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. For waste disposal, see section 13. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Eye wash facilities and emergency shower must be available when handling this product. Avoid eating, drinking and smoking when using the product.

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. Keep only in the original container.

Storage class Chemical storage.

7.3. Specific end use(s)

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

Usage description Spilled substance increases risk of slipping. Keep only in the original container.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW ≤ 700) (CAS: 25068-38-6)

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DNEL	<p>Workers - Dermal; Short term systemic effects: 8.3 mg/kg/day</p> <p>Workers - Dermal; Long term local effects: 8.3 mg/kg/day</p> <p>Workers - Inhalation; Short term local effects: 12.3 mg/m³</p> <p>Workers - Inhalation; Long term systemic effects: 12.3 mg/m³</p> <p>General population - Oral; Short term systemic effects: 0.75 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 0.75 mg/kg</p> <p>General population - Dermal; Short term systemic effects: 3.6 mg/kg/day</p> <p>General population - Dermal; Long term systemic effects: 3.6 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 0.75 mg/m³</p> <p>General population - Inhalation; Long term systemic effects: 0.75 mg/m³</p>
PNEC	<p>- Fresh water; 0.003 mg/l</p> <p>- Marine water; 0.0003 mg/l</p> <p>- Intermittent release; 0.013 mg/l</p> <p>- Sediment (Freshwater); 0.5 mg/kg</p> <p>- Sediment (Marinewater); 0/5 mg/kg</p> <p>- Soil; 0.05 mg/kg</p> <p>- STP; 10.0 mg/l</p>

reaction product:bisphenol-F-(epichlorohydrin) epoxy resin (Number average MW <=700) (CAS: 9003-36-5)

DNEL	<p>General population - Oral; Long term systemic effects: 6.25 mg/kg/day</p> <p>General population - Dermal; Long term systemic effects: 62.5 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 8.7 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 104.15 mg/kg/day</p> <p>Workers - Dermal; Short term local effects: 0.0083 mg/cm²</p> <p>Workers - Inhalation; Long term systemic effects: 29.39 mg/m³</p>
PNEC	<p>- Fresh water; 0.003 mg/l</p> <p>- Marine water; 0.0003 mg/l</p> <p>- Intermittent release; 0.0254 mg/l</p> <p>- Sediment (Freshwater); 0.294 mg/kg</p> <p>- Sediment (Marinewater); 0.0294 mg/kg</p> <p>- Soil; 0.237 mg/kg</p> <p>- STP; 10 mg/l</p>

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

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. The breakthrough time for any glove material may be different for different glove manufacturers. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

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Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station and safety shower. Do not smoke in work area. Keep away from food and drink. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Light (or pale). Yellow.
Odour	Characteristic.
Odour threshold	Not relevant. Not relevant.
pH	pH (concentrated solution): 7
Melting point	Not determined.
Initial boiling point and range	>200°C
Flash point	151°C (DIN 51758)
Evaporation rate	slow
Evaporation factor	Not determined.
Upper/lower flammability or explosive limits	Not relevant. : : Not relevant.
Vapour density	Not determined.
Bulk density	Not determined.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not relevant.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not determined.
Viscosity	700 mPa s @ 20°C
Density	1.15g/cm ³ (DIN 51757, ASTM D 1298)

9.2. Other information

Other information Not relevant.

Solvent content:

Solids content:

SECTION 10: Stability and reactivity

10.1. Reactivity

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Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Water, steam, water mixtures. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). PAH (polycyclic aromatic hydrocarbons).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given below for the mixture is based upon the results of the calculation method. Some of the information given is also taken from data given for the individual ingredients of the mixture.

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

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Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information

No specific health hazards known.

Inhalation

Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

Ingestion

May cause discomfort if swallowed.

Skin contact

Prolonged and frequent contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

Eye contact

Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye irritation.

Acute and chronic health hazards

No specific health hazards known.

Route of entry

Skin and/or eye contact

reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 11400 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

reaction product: bisphenol-F-(epichlorohydrin) epoxy resin (Number average MW <=700)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 23800 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

SECTION 12: Ecological Information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity

Information given below for the mixture is based upon the results of the calculation method. Some of the information given is also taken from data given for the individual ingredients of the mixture. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700)

Acute toxicity - fish LC₅₀, 96 hours: 1.5-7.7 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, : 1.1-3.6 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Effect on Effluent Treatment

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12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not relevant.

12.4. Mobility in soil

Mobility The product is insoluble in water.

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.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

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

Waste class 08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 01 00 wastes from MFSU and removal of paint and varnish 08 01 11*waste paint and varnish containing organic solvents or other hazardous substances HP 4 Irritant - skin irritation and eye damage HP 13 Sensitising HP 14 Ecotoxic

SECTION 14: Transport information

Road transport notes Avoid releasing into the environment.

Rail transport notes Avoid releasing into the environment.

Sea transport notes Do not release into the environment.

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700), reaction product:bisphenol-F-(epichlorohydrin) epoxy resin (Number average MW <=700))

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700), reaction product:bisphenol-F-(epichlorohydrin) epoxy resin (Number average MW <=700))

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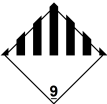
Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700), reaction product:bisphenol-F-(epichlorohydrin) epoxy resin (Number average MW <=700))

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS reaction product: bisphenol-A-(epichlorhydrin) EPOXY RESIN (Number average MW <= 700), reaction product:bisphenol-F-(epichlorohydrin) epoxy resin (Number average MW <=700))

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

Segregation Code

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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Transport/Additional information	.ADR/RID/ADN .Limited quantities (LQ) 5L .Excepted quantities (EQ) Code E1 Maximum net quantity per inner packaging:30g maximum net quantity per outer packaging: 1000g .IMDG .Limited quantities (LQ) 5L .Excepted quantities (EQ) Code E1 Maximum net quantity per inner packaging:30g maximum net quantity per outer packaging: 1000g Remarks: In packaging upto 30 litres exempt according to IMDG 2.3.2.5
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SECTION 15: Regulatory information

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

National regulations	The Control of Substances Hazardous to Health Regulations 2002. (SI 2002 No 2677) as ammended The Carraige of Dangerous Goods and use of Transportable Pressure Equipment Regulations 2009 as amended(SI 2009/1348)
EU legislation	Commision Regulation (EU) No 453/2010 of 20 May 2010 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). 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).
Guidance	L131 Approved Classification and Labelling Guide (Sixth Edition) EH40/2005 Workplace exposure limits

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. LC ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. SVHC: Substances of Very High Concern. vPvB: Very Persistent and Very Bioaccumulative. MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. DMEL: Derived Minimal Effect Level.
Classification abbreviations and acronyms	Aquatic Chronic = Hazardous to the aquatic environment (chronic) Aquatic Acute = Hazardous to the aquatic environment (acute) Eye Irrit. = Eye irritation Skin Sens. = Skin sensitisation Skin Irrit. = Skin irritation

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General information	Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	23/01/2017
Revision	0
SDS number	21495
SDS status	Approved.
Hazard statements in full	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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.