

Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

SAFETY DATA SHEET

1. Identification

Product identifier: SURFYNOL® 104 BC

Chemical name: Acetylenic diol in solvent

Other means of identification

Recommended use: Industrial use

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd

Suites 33&37 1 Ricketts Road Mt Waverley, VIC 3149

Australia

Telephone : +61 3 8581 8400

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Emergency telephone number:

24-Hour Health : +61 2 9037 2994

Emergency

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Classification according to GHS

Physical Hazards

Flammable liquids Category 4

Health Hazards

Acute toxicity (Oral)

Acute toxicity (Inhalation - vapor)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 1

Skin sensitizer

Category 1

Environmental Hazards



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Acute hazards to the aquatic

environment

Category 3

Chronic hazards to the aquatic

environment

Category 3

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Combustible liquid.

Toxic if inhaled. Harmful if swallowed. Causes skin irritation.

Causes serious eye damage. May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse

mouth. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked

up.

Disposal: Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Other hazards: None known.



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

3. Composition/information on ingredients

Chemical name:

Acetylenic diol in solvent

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-butoxyethanol	No data available.	111-76-2	50%
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	No data available.	126-86-3	49.9975%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: fresh air supply, consult a doctor if feeling unwell.

Skin Contact: In case of contact with skin wash off with soap and water. If skin

irritation persists, call a physician.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of water

and seek medical advice

Ingestion: Thoroughly clean the mouth with water In case of discomfort:

Supply with medical care.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Risk of serious damage to eyes. Skin irritation

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the

substance or mixture:

In the event of fire the following can be released: - carbon

dioxide, carbon monoxide Aldehydes. Under certain conditions of combustion traces of other toxic substances

cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No specific precautions.

Special protective equipment for fire-

fighters:

Do not inhale explosion and/or combustion gases. Use self-

contained breathing apparatus and wear protective suit

6. Accidental release measures

Personal precautions, protective

equipment and emergency

procedures:

Use personal protective equipment.

Accidental release measures: No data available.

Methods and material for

containment and cleaning up:

Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in

accordance with the regulations.

Environmental Precautions: Do not allow to enter drains or waterways Prevent product

from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures:No data available.

Local/Total ventilation: No data available.

Safe handling advice: Provide good ventilation of working area (local exhaust

ventilation if necessary). Do not inhale

gases/vapours/aerosols. Avoid contact with skin and eyes.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated

place.Keep away from direct sunlight.Do not store with acids

or alkalies Do not store together with oxidizing agents.



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	orm of Exposure Limit Values	Source
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Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Tightly fitting safety goggles

Hand Protection: Additional Information: gloves made of chloroprene (CR, e.g.

Neoprene), gloves made of nitril (NBR)

Other: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter

apparatus, combination filter A-P2

Hygiene measures: Wash hands before breaks and immediately after handling

not measured

the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately. Use skin protective preparation as preventive skin protection.

9. Physical and chemical properties

Explosive limit - upper:

Information on basic physical and chemical properties

Appearance

Physical state: liquid Form: liquid

Color: Pale yellow

Odor: like menthol

Odor Threshold: not measured

Freezing point: not measured

Boiling Point: > 140 °C/> 284 °F

Flammability: not measured

Upper/lower limit on flammability or explosive limits



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Explosive limit - lower: not measured
Flash Point: 76 °C/169 °F
Auto-ignition temperature: not measured
Decomposition Temperature: not measured

pH: 5 - 7

100 g/l 10 % 25 °C/77 °F in Water

Viscosity

Dynamic viscosity: not measured
Kinematic viscosity: not measured
Flow Time: No data available.

Solubility(ies)

Solubility in Water: not measured Solubility (other): not measured Partition coefficient (n-octanol/water): not measured

Vapor pressure: 14.6 hPa

21 °C/70 °F

Relative density: not measured

Density: 0.9 g/cm3
21 °C/70 °F

No data available.

Relative vapor density: not measured

Other information

Bulk density:

Explosive properties: not measured

Oxidizing properties: not oxidizing

Pyrophoric properties: not measured

Metal Corrosion: Not corrosive to metals

Evaporation Rate: not measured

10. Stability and reactivity

Reactivity: see section "Possibility of hazardous reactions".

Chemical Stability: The product is stable under normal conditions.

Possibility of hazardous reactions: No hazardous reactions with proper storage and handling

Conditions to avoid: direct sunlight

Incompatible Materials: Oxidizing agents. Acids. Alkalies.



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Hazardous Decomposition

Products:

None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eve contact: Information on effects are given below.

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50, Rat, 1,400 mg/kg

Components:

2-butoxyethanol LD 50, Guinea Pig, Female, Male, 1,414 mg/kg, OECD 401

2,4,7,9-Tetramethyldec-5- LD 50, Rat, Female, Male, > 5,000 mg/kg

vne-4,7-diol

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

2-butoxyethanol Not toxic after single exposure, No classification

2,4,7,9-Tetramethyldec-5- LD 50, Rabbit, > 5,000 mg/kg, OECD 402

vne-4,7-diol

Inhalation

Product: LC 50, ATEmix, 4 h, 6 mg/l, Vapour

Components:

2-butoxyethanol LC 50, Acute toxicity estimate, 4 h, > 3 mg/l, Vapour

Dust and mist, Not toxic after single exposure, No classification

2,4,7,9-Tetramethyldec-5- LC 50, Rat, 4 h, > 5 mg/l, Dust and mist

yne-4,7-diol

Vapour, Not toxic after single exposure, No data available.

Repeated dose toxicity

Product: No data available.

Components:

LOAEL - Lowest Observable Adverse Effect Level, Rat, Female, Male, 2-butoxyethanol

Oral, 90 day, continuous, 69 mg/kg bw/day, Target Organ(s): Liver, The

mechanism of action is not relevant for humans.

2,4,7,9-Tetramethyldec-5-

NOAEL - No Observable Adverse Effect Level, Rat, Oral, daily, 500

yne-4,7-diol mg/kg

Skin Corrosion/Irritation

Product: Irritating., (Rabbit), Irritating.

Components:

2-butoxvethanol Irritating., EC B.4, Rabbit, 4 h 2,4,7,9-Tetramethyldec-5- Not irritating, OECD 404, Rabbit, 4 h

yne-4,7-diol



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

2-butoxyethanol Irritating., OECD 405, Rabbit, 24 h

2,4,7,9-Tetramethyldec-5- Risk of serious damage to eyes., US-EPA-method, Rabbit

yne-4,7-diol

Respiratory or Skin Sensitization

Product: No data available.

Components:

Sensitization test, OECD 406, Guinea Pig, Not a skin sensitizer. 2-butoxyethanol 2,4,7,9-Tetramethyldec-5- Local Lymph Node Assay (LLNA), OECD 429, Mouse, Skin sensitizer

yne-4,7-diol

Carcinogenicity

Product: No data available.

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.

Components:

2-butoxyethanol gene mutation test, OECD 471:, negative

Chromosomal aberration, OECD 473:, negative

Genetic mutation in mammal cells, OECD 476: , negative

2,4,7,9-Tetramethyldec-5- Ames test, OECD 471: , negative, Own study

yne-4,7-diol Chromosomal aberration, OECD 473: , negative, Own study

gene mutation test, OECD 476: , negative, Own study

In vivo

Product: No data available.

Components:

In vivo micronucleus test, OECD 474, Intraperitoneal, Mouse, Male, 2-butoxyethanol

In vivo micronucleus test, OECD 474, Intraperitoneal, Rat, Male,

negative

2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Reproductive toxicity

Product: No data available.

Components:

2-butoxyethanol No data available.

2,4,7,9-Tetramethyldec-5- Oral

yne-4,7-diol

Specific Target Organ Toxicity - Single Exposure

Product: No data available.



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Aspiration Hazard

Product: Not classified

Components:

2-butoxyethanol Not classified 2,4,7,9-Tetramethyldec-5- Not applicable

yne-4,7-diol

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

2-butoxyethanol LC 50, Oncorhynchus mykiss, 96 h, 1,474 mg/l OECD 203 2,4,7,9-Tetramethyldec-5-yne-4,7-diol LC 50, Pimephales promelas, 96 h, 36 mg/l OECD 203 LC 50, Cyprinus carpio, 96 h, 42 mg/l OECD 203 NOEC, Cyprinus carpio, 96 h, 10 mg/l OECD 203

Aquatic Invertebrates

Product: No data available.

Components:

2-butoxyethanol EC 50, Daphnia magna, 48 h, 1,550 mg/l OECD 202 2,4,7,9-Tetramethyldec-5-yne-4,7-diol EC 50, Daphnia magna, 48 h, 88 mg/l OECD 202 EC 50, Daphnia magna, 48 h, 91 mg/l OECD 202 NOEC, Daphnia magna, 48 h, 43 mg/l OECD 202

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-butoxyethanol EC 50 (Raphidocelis subcapitata (freshwater green alga), 72 h): 911

mg/I (OECD 201)

2,4,7,9-Tetramethyldec-5-

yne-4,7-diol

EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l (OECD

201)

EC 10 (Algae (Pseudokirchneriella subcapitata), 72 h): 1.8 mg/l (OECD



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

201)

ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 82 mg/l (OECD

201)

Toxicity to microorganisms

Product: No data available.

Components:

EC5, Uronema parduczi, 48 h, Approximate, 463 mg/l 2-butoxyethanol

2,4,7,9-Tetramethyldec-5- EC 50, activated sludge, 3 h, Approximate, 630 mg/l, OECD 209

yne-4,7-diol

Toxicity to soil dwelling organisms

Product: No data available.

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Toxicity to terrestrial organisms

Product: No data available.

Components:

2-butoxvethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

2-butoxyethanol NOEC, Oryzias latipes, 14 d, >= 100 mg/l, OECD 204

2,4,7,9-Tetramethyldec-No data available.

5-yne-4,7-diol

Aquatic Invertebrates

Product: No data available.

Components:

EC 50, Daphnia magna, 21 d, 297 mg/l, OECD 211 2-butoxyethanol

NOEC, Daphnia magna, 21 d, 100 mg/l. OECD 211

2,4,7,9-Tetramethyldec-

5-yne-4,7-diol

No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-butoxyethanol NOEC (Raphidocelis subcapitata (freshwater green alga), 72 h): 88 mg/l

(OECD 201)

2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Toxicity to microorganisms

Product: No data available.

Components:

2-butoxyethanol EC5, Uronema parduczi, 48 h, Approximate, 463 mg/l

2,4,7,9-Tetramethyldec-5- EC 50, activated sludge, 3 h, Approximate, 630 mg/l, OECD 209

yne-4,7-diol

10/14



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Toxicity to soil dwelling organisms

Product: No data available.

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Toxicity to terrestrial organisms

Product: No data available.

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

2-butoxyethanol 90.4 %, 28 d, OECD 301 B, The product is easily biodegradable.,

aerobic

2,4,7,9-Tetramethyldec-5- 5 %, 28 d, OECD 301 B, The product is not biodegradable., aerobic

yne-4,7-diol 8 - 12 %, 60 d, OECD 301 B, The product is not biodegradable., aerobic

25.4 %, 57 d, OECD 302 A, The product is not biodegradable., aerobic

BOD/COD Ratio

Product: No data available.

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

2-butoxyethanol Does not bioaccumulate.

In view of the relatively low octanol / water coefficients of distribution (see Chapter 9), no significant accumulation of the substance in

organisms is to be expected.

2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Partition Coefficient n-octanol / water (log Kow)

Product: not measured

Components:

2-butoxyethanol No data available.

2,4,7,9-Tetramethyldec-5- 2.8, 22 °C, OECD 117, Yes

yne-4,7-diol

Mobility in soil:



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Product No data available.

Components:

2-butoxyethanol No data available. 2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

Other adverse effects:

Other hazards

Product: Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

Disposal methods: In accordance with local authority regulations, take to special waste

incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the

receiver must be informed about possible hazards.

14. Transport information

ADG

UN number or ID number : UN 2810

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.

(2-butoxyethanol)

Class : 6.1
Packing group : III
Labels : 6.1
Hazchem Code : 2X

International Regulations

IATA-DGR

UN/ID No. : UN 2810

Proper shipping name : Toxic liquid, organic, n.o.s.

(2-butoxyethanol)

Class : 6.1
Packing group : III
Labels : 6.1
Packing instruction (cargo : 663

aircraft)

Packing instruction : 655

(passenger aircraft)

IMDG-Code

UN number or ID number : UN 2810

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.

(2-butoxyethanol)

Class : 6.1
Packing group : III
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : no



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

Remarks : Stowage category A, SW2 - Clear of living quarters.,

Segregation group not required / not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16.Other information, including date of preparation or last revision

Issue Date: 11.06.2019

Version #: 1.5

Abbreviations and acronyms:

PY OEL: Paraguay. Decree No. 14.390/92 that approves the General Technical

Regulation of Safety, Hygiene and Medicine in the Workplace, as amended

PY OEL / STEL: Short Term Exposure Limit (STEL): PY OEL / TWA: Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China;



Issue Date: 11.06.2019 Last revised date: 18.04.2024 Supersedes Date: 05.01.2024

IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL -Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI -Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population: LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified: NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD -Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

Disclaimer: This information and all further technical advice is based on our present

knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar

products could not be used.