

SAFETY DATA SHEET

SUPER SEAL ADVANCED™ LARGE SYSTEMS

Revision Date: February 7, 2018
Supersedes: March 17, 2015

Version: 4.1

Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name: SUPER SEAL ADVANCED™ LARGE SYSTEMS
Part Number(s): 948KIT

1.2 Relevant Identified Uses of the Substance or Mixture and uses Advised Against

Relevant Identified Uses: HVAC and refrigeration lubricant additive. Widespread use by certified HVAC/R technician
Uses Advised Against: Non-licensed personal
Reason Why Uses Advised Against: Potential exposure hazard with system refrigerant when installing product into HVAC/R System

1.3 Details of the Supplier of the Safety Data Sheet

Supplier: DiversiTech UK Limited
Street/P.O. Box: Glaisdale Dr E
Postcode / City: NG8 4LY, Nottingham
Country: United Kingdom
Telephone: +44 (0)115 900 5858
E-mail: john.lyle@pumph.co.uk

1.4 Emergency Telephone Number

Please contact: 001+1813 248 0585, 24 Hours, 7 Emergency Days, Chem-Tel, Inc
Other Comments (language): English

Section 2 – Hazards Identification

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

H226 - Flammable liquids: Category 3
H315 - Skin corrosion/irritation: Category 2
H318 - Serious eye damage/irritation: Category 1
H332 - Acute toxicity (Inhalation): Category 4
H373 - Specific Target Organ Toxicity (Repeat Exposure): Category 2
H317 - Skin Sensitization: Category 1
H412 - Hazardous to the aquatic environment (Chronic 3)

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2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard Pictograms:



Signal Word: DANGER

Hazard statements:

- H226 - Flammable liquid and vapour
- H318 - Causes serious eye damage
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H332 - Harmful if inhaled
- H373 - Cause damage to organs through repeated or prolonged exposure (bladder)
- H412 - Harmful to aquatic life with long lasting effects

Precautionary statements:

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 - Do not breathe mist, vapour or spray.
- P264 - Wash hands and exposed skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear protective gloves and eye protection.
- P273 - Avoid release to the environment.

- P303 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 - Specific treatment: see first aid measures on this label.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a poison center/doctor.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
- P370+P378 - In case of fire: Use dry chemical to extinguish.
- P332+P313 - If skin irritation or rash occurs: Get medical attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P308 - If exposed or concerned: Call a poison center /doctor.

Supplemental Hazard Information (EU): None identified

Conditions for safe storage:

Keep away from heat, sparks, and open flame.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Section 3 – Composition/Information on Ingredients

3.1 Substance

This product is regulated as a mixture

3.2 Mixture

Description of the mixture:

HVAC/R additive containing a hydrolytic drying agent and sealants.

Ingredient Name	Comp, wt%	CAS No.	EC No.	REACH Registration No.	Classification
Triethylorthoformate	21-31%	122-51-0	204-550-4	01-2119895412-33-XXXX	Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit. 2 H319
N-(3-(trimethoxysilyl)propyl) ethylenediamine	8-12%	1760-24-3	217-164-6	01-2119970215-39-0000	Flam. Liq. 4 H227 Skin Irrit. 2 H315 Eye Dam. 1 H318
Trimethoxyvinylsilane	7-11%	2768-02-7	220-449-8	01-2119513215-52-0000	Flam. Liq. 2 H225 Acute Tox. 4 H332
Trimethoxy(methyl)silane	1-2%	1185-55-3	214-685-0	01-2120118455-60-0000	Flam. Liq. 2 H225 Skin Sens. 1 H317

Remaining components are not classified as hazardous under ECHA.

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Section 4 – First Aid Measures

4.1 Description of first aid measures

Inhalation

Remove person to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

Eye Contact

Remove contact lenses and immediately flush eyes with copious amounts of water for at least 15 minutes. Obtain medical attention.

Skin Contact

Immediately wash skin with soap and plenty of water. If irritation persists or if contact has been prolonged, obtain medical attention. Wash contaminated clothing before reuse.

Ingestion

Do NOT induce vomiting. Wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This product is expected to react with moisture in the gastrointestinal tract to form methanol. Symptoms may be delayed and include headache, dizziness, nausea, lack of coordination, and confusion.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical treatment immediately.

Section 5 – Firefighting Measures

5.1 Extinguishing media

DO NOT USE WATER STREAM. Use carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

5.2 Special hazards arising from the substance or mixture

Burning in a fire produces carbon oxides, silicon oxides, smoke and fumes.

5.3 Advice for firefighters

Self-contained breathing apparatus and protective clothing if required.
Vapours may travel considerable distance to a source of ignition and flash back.

Section 6 – Accidental Release Measures

6.1.1 Personal precautions, protective equipment and emergency procedures

Protective Equipment:

Wear chemical-resistant gloves and chemical safety goggles or safety glasses with side shields.

Emergency procedures:

Shut off all sources of ignition. Provide adequate ventilation.

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6.1.2 For emergency responders

Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

6.2 Environmental precautions

Provide adequate ventilation. Avoid runoff to sewers and waterways.

6.3 Methods and materials for containment and cleaning up

Cover spill with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

6.4 Reference to other sections

Refer to sections 8 and 13

Section 7 – Handling and Storage

7.1.1 Precautions for safe handling

Measures to prevent fire

Use away from heat, sparks, open flame or any other ignition source. Avoid prolonged or repeated exposure.

Measures to prevent aerosol and dust generation

Not Applicable

Measures to protect the environment

Avoid spills, Avoid runoff to sewers and waterways.

7.1.2 Advice on general occupational hygiene:

- a) Do not eat, drink and smoke in work areas.
- b) Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.
- c) Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep away from heat, sparks, and open flame. In the opened canister, this product is sensitive to moisture.

Packaging materials:

Requirements for storage rooms and vessels:

Store in a well-ventilated place. Keep cool.

Storage class:

8A

7.3 Specific end use

Recommendations:

HVAC and refrigeration lubricant additive

Industrial sector specific solutions:

Compatible with mineral oil, alkyl benzene oil, polyolester oil, polyvinylether oil, polyalkylene glycol oil, and polyalphaolefin oil. Compatible with CFC, HCFC, HFC, HFO, and HC refrigerant.

Section 8 – Exposure Controls/Personal Protection

8.1 Control Parameters

None of the components of this product have occupational exposure limit values in Europe.

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

Substance/Mixture Related Measures to Prevent Exposure During Identified Uses:

General room ventilation is expected to be sufficient for use of the product.

Structural Measures to Prevent Exposure:

General room ventilation

Organizational Measures to Prevent Exposure:

Proper HVAC licensing

Technical Measures to Prevent Exposure:

Use protective gloves. Use eye protection and chemical protective clothing.

Wash thoroughly after handling. Wash contaminated clothing before reuse.

8.2.2 Personal Protection Equipment

8.2.2.1 Eye and Face Protection:

Chemical safety goggles or safety glasses with side shields

8.2.2.2 Skin Protection:

Hand Protection:

Chemical resistant gloves

Other Skin Protection:

Wear clothing that covers arms and legs. Wash hands thoroughly after use.

8.2.2.3 Respiratory Protection:

Wear properly fitted NIOSH approved half-mask or air-purifying respirator

8.2.2.4 Thermal Hazards:

Keep away from heat and open ignition sources.

8.2.3 Environmental Exposure Controls

Environmental Exposure Controls

See SECTION 7.1.1: Handling and Storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

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Section 9 – Physical and Chemical Properties

a) Appearance	Clear colourless liquid
b) Odour	Ethereal
c) Odour threshold	No data available
d) pH	No data available
e) Freezing point	No data available
f) Boiling point	No data available
g) Flash point	30°C (86°F) (closed cup testing)
h) Evaporation rate	No data available
i) Flammability or explosive limits	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Density	0.95 g/cm ³ @ 25°C (77°F)
n) Water Solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive Properties	No data available
t) Oxidizing Properties	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

Section 10 – Stability and Reactivity

10.1 Reactivity

Sensitivity with water or moisture. Reacts with water forming an organosilane polymer and methanol.

10.2 Chemical stability

Stable under recommended storage conditions. Keep away from moisture, heat or flame.

10.3 Possibility of hazardous reactions

Unlikely

10.4 Conditions to avoid

Avoid contact with moisture, heat, flames and sparks.

10.5 Incompatible materials

Acids, strong oxidizing agents

10.6 Hazardous decomposition products

Reacts with water or moisture to form methanol. In a fire, carbon monoxide, carbon dioxide and silicon oxides are formed. Does not decompose when used for intended uses.

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Section 11 – Toxicological Information

The toxicological properties of this product have not been investigated. Information for some components is provided below.

11.1 Information on toxicological effects

Acute toxicity

Oral LD50 rat: Triethylorthoformate – 7060 mg/kg
Trimethoxyvinylsilane - 7340 - 7460 mg/kg
N-(3-(trimethoxysilyl)propyl)ethylenediamine - 2995 mg/kg
Trimethoxy(methyl)silane - 11685 mg/kg

Skin LD50 rabbit: Triethylorthoformate – 17820 mg/kg
Trimethoxyvinylsilane – 3460 - 4000 mg/kg
N-(3-(trimethoxysilyl)propyl)ethylenediamine - >2000 mg/kg
Trimethoxy(methyl)silane – >9500 mg/kg

Skin LD50 guinea pig: Triethylorthoformate - >8910 mg/kg

Inhalation LC50 rat: Trimethoxyvinylsilane - 16.79 mg/l
N-(3-(trimethoxysilyl)propyl)ethylenediamine – 1.49 – 2.44 mg/l
Trimethoxy(methyl)silane – >42.1 mg/l

Skin corrosion/irritation

Rabbit: Triethylorthoformate – slightly irritating
Trimethoxyvinylsilane - no irritation
N-(3-(trimethoxysilyl)propyl)ethylenediamine – no irritation
Trimethoxy(methyl)silane – no irritation

Serious eye damage/irritation

Rabbit: Triethylorthoformate – no irritation
Trimethoxyvinylsilane - no irritation
N-(3-(trimethoxysilyl)propyl)ethylenediamine - strongly irritating
Trimethoxy(methyl)silane – no irritation

Respiratory or skin sensitization

Guinea pig: Trimethoxyvinylsilane - did not elicit a delayed contact hypersensitivity response
N-(3-(trimethoxysilyl)propyl)ethylenediamine - may cause sensitization by skin contact
Trimethoxy(methyl)silane – no irritation

Repeated Dose Toxicity

Oral rat: Trimethoxyvinylsilane
NOAEL: <62.5 mg/kg
Lowest Observable Effect Level – 62.5 mg/kg

N-(3-(trimethoxysilyl)propyl)ethylenediamine
NOAEL: >500 mg/kg
Exposure time: 28 d

Trimethoxy(methyl)silane
NOAEL: 50 mg/kg
Exposure time: 28 d

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Inhalation rat: Trimethoxyvinylsilane
NOAEL – 10 mg/l
Lowest Observable Effect Level - 100 mg/kg

Germ cell mutagenicity

N-(3-(trimethoxysilyl)propyl)ethylenediamine: negative (Ames test)

Carcinogenicity

None of the components of this product is identified as a carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity

N-(3-(trimethoxysilyl)propyl)ethylenediamine
No Observed Adverse Effect Level (NOAEL):
500 mg/kg/day (developmental and maternal toxicity)

Oral rat male: Trimethoxyvinylsilane
NOAEL P1 – 1000 mg/kg
NOAEL F1 – 1000 mg/kg

Oral rat female: Trimethoxyvinylsilane
NOAEL P1 – 250 mg/kg
NOAEL F1 – 1000 mg/kg

Summary of evaluation of the CMR properties:

No data available

Specific target organ toxicity – single exposure:

No data available

Specific target organ toxicity – repeated exposure:

No data available

Aspiration hazard:

No data available

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin Contact: May be harmful if absorbed through skin. Causes mild skin irritation.

Eye Contact: Causes eye irritation.

Ingestion: May be harmful if swallowed.

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Section 12 – Ecological Information

12.1 Toxicity

No data are available for the ecological effects of this product; information on some components is provided below. The silane components of the product degrade through hydrolysis into alcohols and silanol and/or siloxanol compounds. The product is not expected to be readily biodegradable.

Triethylorthoformate

Acute toxicity to fish

(48-h) LC50: 592mg/L *Leuciscus idus* (guideline DIN 38412 Teil 15)

(48-h) LC0: 400mg/L *Leuciscus idus* (guideline DIN 38412 Teil 15)

Acute toxicity to aquatic invertebrates

(48-h) EC50: 617mg/L *Daphnia magna* (guideline EU Method C.2 (Acute Toxicity for Daphnia))

Acute toxicity to algae/aquatic plants

(96-h) EC50: 124.401mg/L (QSAR)

(96-h) NOEC: 29.074mg/L (QSAR)

Toxicity to bacteria

(6-h) EC10: 1.4g/L *Pseudomonas putida* (Huels-Methode [Bringmann und Kuhn, Z. Wasser Abwasser Forsch. 10,87-98 (1977)])

N-(3-(trimethoxysilyl)propyl) ethylenediamine

Acute toxicity to fish

LC50 (96-h): 597mg/ mortality *Danio rerio*, (Huls 1994).

Acute toxicity to aquatic invertebrates

EC50 (48-h): 81mg/L mobility *Daphnia magna* (Huls 1995).

Acute toxicity to algae/aquatic plants

(72-h) EC50: 8.8 mg/l growth rate *Pseudokirchneriella subcapitata*, reliability 2 (Springborn Smithers, 2002b).

(72-h) NOEC: 3.1 mg/l growth rate *Pseudokirchneriella subcapitata*, reliability 2 (Springborn Smithers, 2002b).

Toxicity to bacteria

Toxicity to microorganisms: EC₅₀ of 67 mg/l; EC₁₀ 25 mg/l (*Pseudomonas putida*, growth rate).

Trimethoxyvinylsilane

Acute toxicity to fish

(96-h) LC50: 191mg/L *Oncorhynchus mykiss*. Primarily exposed to the hydrolysis products of the substance.

(96-h) NOEC: 100mg/L *Oncorhynchus mykiss*. Primarily exposed to the hydrolysis products of the substance.

Acute toxicity to aquatic invertebrates

(48-g) EC50: 168.7mg/L *Daphnia magna*. Primarily exposed to the hydrolysis products of the substance.

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Acute toxicity to algae/aquatic plants

(72-h) EC50: >89mg/L *Pseudokirchneriella subcapitata* Primarily exposed to the hydrolysis products of the substance
(7-day) EC50: 210mg/L *Pseudokirchneriella subcapitata* Primarily exposed to the hydrolysis products of the substance.

(72-h) NOEC: =89mg/L *Pseudokirchneriella subcapitata* Primarily exposed to the hydrolysis products of the substance.
(7-day) NOEC: 25mg/L *Pseudokirchneriella subcapitata* Primarily exposed to the hydrolysis products of the substance.

Toxicity to bacteria

(3-h) ASRI EC10: >100mg/L (loading rate) (OECD 209)

Trimethoxymethylsilane

Acute toxicity to fish

(96-h) LC50: >110mg/L (measured concentration) *Oncorhynchus mykiss* under flow-through conditions
(96-h) NOEC: >110mg/L (measured concentration) *Oncorhynchus mykiss* under flow-through conditions

Acute toxicity to aquatic invertebrates

(48-h) EC50: >122mg/L (measured concentration) *Daphnia magna* under flow-through conditions
(48-h) NOEC: >122mg/L (measured concentration) *Daphnia magna* under flow-through conditions

Acute toxicity to algae/aquatic plants

(72-h) EC50: >3.6mg/L (measured concentration) Growth Rate *Pseudokirchneriella subcapitata*, known to hydrolyse rapidly in water
(72-h) NOEC: >3.6mg/L (measured concentration) Growth Rate *Pseudokirchneriella subcapitata*, known to hydrolyse rapidly in water

Toxicity to bacteria

(3-h) ASRI EC10: >100mg/L (loading rate) (OECD 209)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

12.7 Additional information

No data available

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Section 13 – Disposal Considerations

13.1 Waste Treatment Methods

13.1.1 Product / Packaging Disposal

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is flammable. Observe all federal, provincial, and local environmental regulations. Dispose packaging with product.

13.1.2 Waste Treatment-Relevant Information

Place into a suitable marked closed container for disposal as chemical waste.

13.1.3 Sewage Disposal-Relevant Information

Dispose of in accordance with local and national regulations.

13.1.4 Other Disposal Recommendations

Do not expose to waterways.

Section 14 – Transport Information

TDG/IATA/IACO/IMDG

14.1 UN Number

UN #: 1993

14.2 UN Proper Shipping Name

FLAMMABLE LIQUID, N.O.S. (Ethyl orthoformate)

14.3 Transport Hazard Class(es)

Class: 3

14.4 Packing Group

Packing Group: III

14.5 Environmental Hazards

Marnie pollutant according to the International Maritime Dangerous Goods Code (IMDG Code)

14.6 Special Precautions for Use

No additional information is required.

14.7 Transport in Bulk According to ANNEX II of MARPOL and the IBC Code

No additional information is required.

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Section 15 – Regulatory Information

15.1 Safety, Health, and Environmental Regulations/Legislations Specific for the Substance or Mixture (EU Regulation)

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 On persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006 REACH Annex XIV Substances subject to authorization, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work: none

Directive 92/85/EC on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical Safety Assessment

A chemical safety assessment has not been conducted on this substance.

Section 16 – Other Information

This version 4.1 (February 7, 2018) has been updated from version 4.0 and conforms to the requirements of REACH

Full text of other abbreviations

wt% = weight percentage; **CLP** - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; **CMR** - Carcinogen, Mutagen or Reproductive Toxicant; **ECHA** - European Chemicals Agency; **EC-Number** - European Community number; **EC_x** - Concentration associated with x% response; **EL_x** - Loading rate associated with x% response; **ErC_x** - Concentration associated with x% growth rate response; **GHS** - Globally Harmonized 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; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organisation for Standardization; **LC₅₀** - Lethal Concentration to 50 % of a test population; **LD₅₀** - Lethal Dose to 50% of a test population (Median Lethal Dose); **NO(A)EC** - No Observed (Adverse) Effect Concentration; **NO(A)EL** - No Observed (Adverse) Effect Level; **NOELR** - No Observable Effect Loading Rate; **OECD** - Organization for Economic Co-operation and Development; **OPPTS** - Office of Chemical Safety and Pollution Prevention; **PBT** - Persistent, Bioaccumulative and Toxic substance; **(QSAR)** - (Quantitative) Structure Activity Relationship; **REACH** - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; **RID** - Regulations concerning the International Carriage of Dangerous Goods by Rail; **SDS** - Safety Data Sheet; **vPvB** - Very Persistent and Very Bioaccumulative; **Comp** - Composition

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All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.