



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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

1.1. Product identifier

| | |
|--------------|-----------------------|
| Product name | PALCAM PAC Supplement |
| Product code | NCM4041 |

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

| | |
|-------------|--|
| Product Use | [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; [PROC15] Use as laboratory reagent; |
| Description | Intended for laboratory use only. For in vitro use only. |

1.3. Details of the supplier of the safety data sheet

| | |
|-----------|--|
| Company | Neogen Corporation |
| Address | 620 Leshler Place Lansing MI 48912 USA |
| Web | www.neogen.com |
| Telephone | 517-372-9200/800-234-5333 |
| Email | SDS@neogen.com |

1.4. Emergency telephone number

24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

Further information

Manufactured By:
Neogen Corporation
Unit 7 Brookfield Business Park
Muir Road
Liverpool, L9 7AR, UK.

Neogen Corporation
1 Quest Park-Moss Hall Road
Heywood Lancashire BL97JJ UK.

Neogen Corporation
740 East Shiawassee
Lansing, MI 48912 U.S.A.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


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2.1. Classification of the substance or mixture

2.1.2. Classification - GHS Skin Sens. 1: H317; Eye Irrit. 2: H319; Resp. Sens. 1: H334;

2.2. Label elements

| | |
|-------------------------------------|--|
| Hazard pictograms |  |
| Signal Word | Danger |
| Hazard Statement | Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Precautionary Statement: Prevention | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear respiratory protection. |
| Precautionary Statement: Response | P302+P352 - IF ON SKIN: Wash with plenty of water/ . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ . |
| Precautionary Statement: Disposal | P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations. |

2.3. Other hazards

Other hazards Contains material(s) which may be harmful if swallowed. Dust may be irritating if inhaled.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

| Chemical Name | Index No. | CAS No. | EC No. | REACH Registration Number | Conc. (%w/w) | Classification |
|---------------------------|-----------|------------|-----------|---------------------------|--------------|--|
| Ceftazidime | | 72558-82-8 | 276-715-9 | | 10 - 20% | Skin Sens. 1: H317; Eye Irrit. 2: H319; Resp. Sens. 1: H334; |
| Polymyxin B sulfate | | 1405-20-5 | 215-774-7 | | 1 - 10% | Acute Tox. 4: H302; |
| Acriflavine hydrochloride | | 8063-24-9 | 617-132-5 | | 1 - 10% | Acute Tox. 4: H302; Eye Dam. 1: H318; STOT SE 3: H335; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; |

Description

Concentrations listed are not product specifications.

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures

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4.1. Description of first aid measures

| | |
|--------------|---|
| Inhalation | Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist. |
| Eye contact | Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist. |
| Skin contact | Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist. |
| Ingestion | Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. |

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

| | |
|--------------|--|
| Inhalation | May cause irritation to respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Eye contact | Causes serious eye irritation. |
| Skin contact | May cause irritation to skin. May cause dermatitis. |
| Ingestion | Ingestion may cause nausea and vomiting. |

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

| | |
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| | Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
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| | Use extinguishing media appropriate to the surrounding fire conditions. |
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5.2. Special hazards arising from the substance or mixture

| | |
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| | Irritant. Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course or sewage system. |
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5.3. Advice for firefighters

| | |
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| | Do not breathe dust or vapor. Wear self-contained breathing apparatus and chemical-protective clothing. |
|--|---|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
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| | Avoid formation of dust. Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure. |
|--|--|

6.2. Environmental precautions

| | |
|--|---|
| | Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil. |
|--|---|

6.3. Methods and material for containment and cleaning up

| | |
|--|--|
| | Avoid formation of dust. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes. |
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6.4. Reference to other sections

| | |
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| | See Section(s) 2, 8, and 13 for further information. |
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SECTION 7: Handling and storage

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7.1. Precautions for safe handling

| | |
|--|---|
| | <p>Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing.</p> <p>Read the entire label and follow all use directions, restrictions, and precautions.</p> |
|--|---|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--|--|
| | <p>Store at temperatures between 2 °C and 8 °C.</p> <p>Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.</p> |
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7.3. Specific end use(s)

| | |
|--|---|
| | See Section(s) 1.2 for further information. |
|--|---|

Further information


| | |
|--|--|
| | Refer to product label and/or package insert for additional information. |
|--|--|

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|--|--|
| | No occupational exposure limits known. |
|--|--|

8.2. Exposure controls

| | |
|-----------------------------------|---|
| |  |
| Appropriate engineering controls | Ensure adequate ventilation of the working area. |
| Individual protection measures | Use as appropriate: Protective equipment. |
| Eye / face protection | Use as appropriate: Suitable eye protection. |
| Skin protection - Hand protection | Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them. |
| Skin protection - Other | Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. Dust may be irritating if inhaled. |
| Occupational exposure controls | Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station. |

Further information

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| | Refer to product label for additional PPE requirements and recommendations. Follow label instructions. |
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

| | |
|---------------------------------|---------------------------|
| State | Powder |
| Color | Orange |
| Odor | Characteristic |
| Odor threshold | No data available |
| pH | No data available |
| Melting point | No data available |
| Freezing Point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Partition coefficient | No data available |
| Autoignition temperature | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| Viscosity | Not applicable. |
| Solubility | Slightly soluble in water |

9.2. Other information

| | |
|---|-------------------|
| Conductivity | No data available |
| Benzene Content | No data available |
| Lead content | No data available |
| VOC (Volatile organic compounds) | No data available |
| Surface tension | Not applicable. |
| Gas group | Not applicable. |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|--|---------------------------------|
| | Stable under normal conditions. |
|--|---------------------------------|

10.2. Chemical stability

| | |
|--|---------------------------------|
| | Stable under normal conditions. |
|--|---------------------------------|

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

| | |
|--|---|
| | Keep away from extreme temperatures. Protect from moisture. |
|--|---|

10.5. Incompatible materials

| | |
|--|--------------------|
| | No data available. |
|--|--------------------|

10.6. Hazardous decomposition products

| | |
|--|----------------|
| | Carbon oxides. |
|--|----------------|

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| | |
|--|---|
| Acute toxicity | Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3. |
| Skin corrosion/irritation | May cause irritation to skin. May cause dermatitis. |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | May cause allergic reactions in susceptible people. May cause sensitization by inhalation and skin contact. |
| Germ cell mutagenicity | No mutagenic effects reported. |
| Carcinogenicity | No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Listed by the International Agency for Research on Cancer (IARC) as a group 3 substance: evidence does not support the substance as a human carcinogen, [Polyvinyl pyrrolidone, CAS No. 9003-39-8]. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens. |
| Reproductive toxicity | No teratogenic effects reported. |
| STOT-single exposure | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| STOT-repeated exposure | No Significant Hazard. |
| Aspiration hazard | No Significant Hazard. |
| Repeated or prolonged exposure | Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. |

11.1.2. Mixtures

| | |
|--|---|
| | See Section(s) 3 for further information. |
|--|---|

11.1.3. Hazard Information

| | |
|--|---|
| | See Section(s) 2 and 3 for further information. |
|--|---|

11.1.4. Toxicological information

| | |
|--|-------------------|
| | No data available |
|--|-------------------|

11.1.5. Hazard Class

| | |
|--|--|
| | See Section(s) 2 and 14 for further information. |
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11.1.6. Classification Criteria

| | |
|--|--|
| | Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations. |
|--|--|

11.1.7. Information on likely routes of exposure

| | |
|--|---|
| | Eye contact. Skin contact. Inhalation. Ingestion. |
|--|---|

11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

| | |
|--|---|
| | See Section(s) 4.2 for further information. |
|--|---|

11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---|
| | See Section(s) 4.2 for further information. |
|--|---|

11.1.10. Interactive effects

| | |
|--|--------------------|
| | No data available. |
|--|--------------------|

11.1.11. Absence of specific data

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| | |
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11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

11.1.13. Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

PALCAM PAC Supplement No data available

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

Specific test data for the substance or mixture is not available.

Further information

Keep out of lakes, ponds, or streams.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations. Follow label instructions.

Disposal methods

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.

Disposal of packaging

Nonrefillable container. Do not reuse or refill this container.

If empty: Do not reuse this container. Place in trash or offer for recycling, if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

SECTION 14: Transport information

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14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

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

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.

Chemical Inventories/Right-to-Know Lists:

--International--

Basel Convention (Hazardous Waste): Not applicable.

Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels.

Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels.

Mercosur Agreement: Applicable.

Montreal Protocol: This product contains no hazardous substances at or above published reporting levels.

The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels.

The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.

--Asia and the ASEAN Nations--

Catalog of Hazardous Chemicals (China): This product contains no hazardous substances at or above published reporting levels.

Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels.

Air Pollution Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.

Chemical Substances Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.

Industrial Safety and Health Act, Dangerous Substances (Japan): This product contains no hazardous substances at or above published reporting levels.

Poisonous and Deleterious Substances Act (Japan): This product contains no hazardous substances at or above published reporting levels.

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

Soil Contamination Countermeasures Act (Japan): This product contains no hazardous substances at or above published reporting levels.

Water Pollution Control Law (Japan): This product contains no hazardous substances at or above published reporting levels.

Chemical Substances Subject to Permission (Korea): This product contains no hazardous substances at or above published reporting levels.

Restricted or Prohibited Substances (Korea): This product contains no hazardous substances at or above published reporting levels.

Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This product contains no hazardous substances at or above published reporting levels.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): Toxic Substances and Hazardous and Nuclear Wastes Control Act (RA6969):, All ingredients listed or exempt., No restrictions.

Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This product contains no hazardous substances at or above published reporting levels.

Hazardous Substances Act (Thailand): This product contains no hazardous substances at or above published reporting levels.

Law on Chemicals (Vietnam): This product contains no hazardous substances at or above published reporting levels.

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

Australian Inventory of Chemical Substances (AICS): This product contains one or more components that are not listed or exempt from listing on the inventory administered by the governing country.

New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt., No restrictions.

--European Union (EU) and the United Kingdom (UK)--.

Authorization List (Annex XIV of REACH): This material contains no reportable components.

Annex XVII for REACH: This product contains no hazardous substances at or above published reporting levels, No restrictions.

Article 95 of the Biocidal Products Regulation (BPR): Not applicable.

--North America--.

Domestic/Non-Domestic Substances Lists (DSL/NDSL): This product contains one or more components that are not listed or exempt from listing on the inventory administered by the governing country.

Toxic Substances Control Act (TSCA): This product contains one or more components that are not listed or exempt from listing on the inventory administered by the governing country.

Massachusetts Right-to-Know Hazardous Substance List: Sodium phosphate dibasic, CAS No. 7558-79-4.

New Jersey Worker and Community Right to Know Act: Sodium phosphate dibasic, CAS No. 7558-79-4.

Pennsylvania Right to Know Law: Phosphoric acid, disodium salt, CAS No. 7558-79-4.

Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.

California Prop 65: This material contains no reportable components.

SECTION 16: Other information

Other information

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Other information

| | |
|---|---|
| Revision | This document differs from the previous version in the following areas: 2 - Precautionary Statement: Response. 4 - Inhalation. 4 - Skin contact. 5 - 5.2. Special hazards arising from the substance or mixture. 9 - 9.2. Other information (Product Subcategory). 10 - 10.4. Conditions to avoid. 11 - Skin corrosion/irritation. 11 - Respiratory or skin sensitization. 12 - 12.1. Toxicity. 15 - Chemical Inventories/Right-to-Know Lists. 16 - Maximum content of VOC. |
| Acronyms | ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR). CAS No.: Chemical Abstracts Service. CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia). FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act. GHS: Globally Harmonized System. HCS 2012: Hazard Communication Standard (2012 revision). IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods. LD: Lethal dose. OEL: Occupational exposure limit. OSHA: U.S. Occupational Safety and Health Administration. PEL: Permissible Exposure Limit. REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals. STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern. US DOT: United States Department of Transportation. VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit. |
| Text of Hazard Statements in Section 3 | Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. |

Further information

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Further information

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| | WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product. |
|--|---|

