


SAFETY DATA SHEET

Section 1 - Identification

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|---|---|
| Product Identifier | POWER-SAFE Multi-Surface Degreaser Cleaner |
| Other means of identification | 1021 |
| Recommended use | Alkaline cleaner. |
| Recommended restrictions | For commercial and industrial use only. |
| Manufacturer / Importer / Supplier / Distributor Information | |
| Company Name | National Chemical Laboratories of PA, Inc. |
| Address | 401 N. 10th Street - Philadelphia, PA 19123 |
| Telephone | 1 (215) 922-1200 |
| Supplier Email | info@nclonline.com |
| Contact | CHEM-TEL |
| Emergency Phone | 1 (800) 255-3924 |

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

| | Classification | Category |
|--|--|-----------------|
| Physical Hazards | Not Classified | |
| Health Hazards | Sensitization, skin | 1 |
| | Serious eye damage/eye irritation | 2A |
| OSHA defined hazards | Not Classified. | |
| Label Elements | | |
| Hazard Symbol |  | |
| Signal Word | Warning | |
| Hazard Statement | May cause an allergic skin reaction. Causes serious eye irritation. | |
| Precautionary statement | | |
| Prevention | Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wear eye/face protection. | |
| Response | If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. | |
| Storage | Store away from incompatible materials. | |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. | |
| Hazard(s) not otherwise classified (HNOC) | None known. | |

Section 3 - Composition/Information on ingredients

| | | | |
|-----------------------------|------------------------------|--------------|----------|
| Mixture | | | |
| Hazardous Components | Ingredient Name | CAS # | % |
| | 2-Butoxyethanol | 111-76-2 | 5 - 10 |
| | Alcohols, C12-13 Ethoxylated | 66455-14-9 | 1 - 5 |
| | Orange Oil | 8008-57-9 | 0.1 - 1 |

Section 4 - First-aid Measures

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|---------------------|--|
| Inhalation | Move to fresh air. Get medical attention if irritation persists. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Get medical attention if irritation develops or persists. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Get medical attention if irritation develops and persists. |

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| Most Important symptoms /effects, acute and delayed | Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. |
| Indication of immediate medical attention and special treatment | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General Information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. |

Section 5 - Fire-fighting measures

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|--|---|
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment /instructions | Move containers from fire area if you can do it without risk. |
| General fire hazards | No unusual fire or explosion hazards noted. |
| Specific Methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

Section 6 - Accidental release measures

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| Personal precautions, protective equipment and emergency procedures. | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |

Section 7 - Handling and storage

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| Precautions for safe handling | Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

Section 8 - Exposure control/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|--------------------------------|------|--------------------------------|------|
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 240 mg/m ³ , 50 ppm | |

US. ACGIH Threshold Limit Values

| Component | Type | Value | Form |
|--------------------------------|------|--------|------|
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 20 ppm | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--------------------------------|------|------------------------------|
| 2-Butoxyethanol (CAS 111-76-2) | TWA | 24 mg/m ³ , 5 ppm |

Biological limit values No biological exposure limits noted for the ingredient(s).

US. ACGIH. BEIs. Biological Exposure Indices

| Components | Value | Determinate | Specimen | Sampling Time |
|--------------------------------|----------|--|---------------------|---------------|
| 2-Butoxyethanol (CAS 111-76-2) | 200 mg/g | Butoxyacetic acid (BAA), with hydrolysis | Creatinine in urine | * |

* - For sampling details, please see the source document.

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

| Components | Exposure |
|--------------------------------|-----------------------------------|
| 2-Butoxyethanol (CAS 111-76-2) | Can be absorbed through the skin. |

US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

| Components | Exposure |
|--------------------------------|---------------------------|
| 2-Butoxyethanol (CAS 111-76-2) | Skin designation applies. |

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US.NIOSH: Pocket Guide to Chemical Hazards

| | |
|--------------------------------|-----------------------------------|
| Component | Exposure |
| 2-Butoxyethanol (CAS 111-76-2) | Can be absorbed through the skin. |

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100)

| | |
|--------------------------------|-----------------------------------|
| Components | Exposure |
| 2-Butoxyethanol (CAS 111-76-2) | Can be absorbed through the skin. |

US.OSHA Table Z-1-A (29 CFR 1910.100)

| | |
|--------------------------------|-----------------------------------|
| Components | Exposure |
| 2-Butoxyethanol (CAS 111-76-2) | Can be absorbed through the skin. |

US.Tennessee. OELs Occupational Exposure Limits, Table Z1A

| | |
|--------------------------------|-----------------------------------|
| Components | Exposure |
| 2-Butoxyethanol (CAS 111-76-2) | Can be absorbed through the skin. |

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

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|---------------------------------------|---|
| Eye/face protection | If use of product risks exposure to contact, wear safety glasses with side shields. |
| Skin protection | |
| Hand protection | Impervious gloves are recommended for prolonged use. |
| Other | If use of product risk exposure to contact, wear suitable protective clothing. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | Contaminated work clothing should not be allowed out of the workplace. |

Section 9 - Physical and chemical properties

Appearance

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| Physical state | Liquid. |
| Form | Thin, opaque liquid. |
| Color | Pink. |
| Odor | Orange. |
| Odor threshold | Not available. |
| pH | 9.9 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | 212 °F (100 °C) |
| Flash point | > 212.0 °F (> 100.0 °C) Tag Closed Cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Similar to water. |
| Vapor density | Similar to water. |
| Relative density | 1.02 ± 0.01 |
| Relative density temperature | 75 °F (23.9 °C) |
| Solubilities (water) | 100% Completely soluble. |
| Partition Coefficient n-octanol/water | Not available |
| Auto-ignition temperature | Not Available |
| Decomposition temperature | Not Available |
| Viscosity | < 10 cSt |
| Viscosity Temperature | 75 °F (23.9 °C) |

Section 10 - Stability and reactivity

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| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |

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| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to Avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous Decomposition Products | No hazardous decomposition products are known. |

Section 11 - Toxicological information

Information on likely routes of exposure

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|---|--|
| Ingestion | Expected to be a low ingestion hazard. |
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | May cause an allergic skin reaction. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans. |
| Eye contact | Causes serious eye irritation. |
| Symptoms related to the physical, chemical and toxicological characteristics | Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. |

Information on toxicological effects.

Acute toxicity May cause an allergic skin reaction.

| Components | Level | Type | Code | Species | Results |
|---|-------|------------|------|------------|--|
| 2-Butoxyethanol (CAS 111-76-2) | Acute | Dermal | LD50 | Rabbit | 400 mg/kg |
| | Acute | Inhalation | LC50 | Mouse | 700 ppm, 7 hours |
| | Acute | Inhalation | LC50 | Rat | 450 mg/l, 4 hrs |
| | Acute | Oral | LD50 | Guinea pig | 1.2 g/kg |
| | Acute | Oral | LD50 | Mouse | 1519 mg/kg |
| | Acute | Oral | LD50 | Rabbit | 0.32 g/kg |
| Alcohols, C12-13 Ethoxylated (CAS 66455-14-9) | Acute | Oral | LD50 | Rat | 560 mg/kg |
| | Acute | Dermal | LD50 | Rabbit | 3300 mg/kg, 24 Hours |
| | Acute | Dermal | LD50 | Rat | > 2000 mg/kg, 24 Hours |
| | Acute | Inhalation | LC50 | Rat | > 100 mg/m ³ , 6 Hours > 1.6 mg/l, 4 Hours |

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/ eye irritation Causes serious eye irritation.

Respiratory sensitization This product is not expected to cause respiratory sensitization.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

| Component | Result | Comment |
|--------------------------------|--------|---|
| 2-Butoxyethanol (CAS 111-76-2) | 3 | Not classifiable as to carcinogenicity to humans. |

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful.
2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Section 12 - Ecological Information

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms. The product as a whole is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component(s)

Alcohols, C12-13 Ethoxylated, 66455-14-9

Aquatic

| Level | Type | Code | Species | Test Results |
|-------|-----------|------|---------------------------------------|---------------------------|
| Acute | Crustacea | EC50 | Water flea (Daphnia magna) | 0.39 -0.56 mg/l, 48 hours |
| | Fish | LC50 | Flathead minnow (Pimephales promelas) | 0.72 -2.7 mg/l, 96 hours |

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| Persistence and degradability | No data is available on the degradability of this product. |
| Bioaccumulative potential | |
| Partition coefficient n-octanol / water log (Kow) | |
| Components | Results |
| 2-Butoxyethanol (CAS 111-76-2) | 0.83 |
| Mobility in soil | No data available. |
| Mobility in general | No data available. |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

Section 13 - Disposal considerations

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|--|---|
| Disposal instructions | Dispose in accordance with applicable federal, state, and local regulations. |
| Local disposal regulations | Dispose of in accordance with local regulations. |
| Hazardous waste code | Waste codes should be assigned by the user based on the application for which the product was used. |
| Waste from residues / unused products | Dispose in accordance with all applicable regulations. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

Section 14 - Transport information

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| DOT | Not regulated as dangerous goods. |
| IATA | Not regulated as dangerous goods. |
| IMDG | Not regulated as dangerous goods. |
| Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code | This substance/mixture is not intended to be transported in bulk. |

Section 15 - Regulatory Information

| | | | |
|---|--|----------------|----------|
| US federal regulations | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. | | |
| TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D) | | Not regulated. | |
| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | | Not listed | |
| CERCLA Hazardous Substance List (40 CFR 302.4) | | | |
| Components | | Result | |
| 2-Butoxyethanol (CAS 111-76-2) | | LISTED | |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) | | | |
| Hazard Categories | Immediate Hazard | Yes | |
| | Delayed Hazard | No | |
| | Fire Hazard | No | |
| | Pressure Hazard | No | |
| | Reactivity Hazard | No | |
| SARA 302 Extremely hazardous substance | | Not listed. | |
| SARA 311/312 Hazardous chemical | | Yes | |
| SARA 313 (TRI reporting) | | | |
| Chemical name | | CAS # | % by wt. |
| 2-Butoxyethanol | | 111-76-2 | 5 - 10 |
| Other federal regulations | | | |
| Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List | | Not regulated. | |
| Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) | | Not regulated. | |
| Safe Drinking Water Act (SDWA) | | Not regulated. | |
| Food and Drug Administration (FDA) | | Not regulated. | |
| US state regulations | | | |
| US.Massachusetts RTK - Substance List | Components | | |
| | 2-Butoxyethanol (CAS 111-76-2) | | |
| US.New Jersey Worker and Community Right-to-Know Act | Components | | |
| | 2-Butoxyethanol (CAS 111-76-2) | | |
| US.Pennsylvania RTK - Hazardous Substances | Components | | |
| | 2-Butoxyethanol (CAS 111-76-2) | | |
| US.Rhode Island RTK | Components | | |
| | 2-Butoxyethanol (CAS 111-76-2) | | |
| | This material is not know to expose you to a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. | | |

International Inventories

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| Country(s) or region | Inventory Name | On Inventory (yes/no)* |
|---------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances | Yes |
| Unites States Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other information, including date of preparation or last version

Revision date 1/17/2018

Version # 02

Disclaimer The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.