


**SAFETY DATA SHEET**

**Section 1 - Identification**

|   |  |
|---|--|
| <b>Product Identifier</b>   | 20X Glass and Window Cleaner Concentrate   |
| <b>Other means of identification</b>                                | 1325   |
| <b>Recommended use</b>  | Glass & Window Cleaner   |
| <b>Recommended restrictions</b>                                     | For commercial and industrial use only. This product is intended to be diluted prior to use. |
| <b>Manufacturer / Importer / Supplier / Distributor Information</b> |  |
| <b>Company Name</b>   | National Chemical Laboratories of PA, Inc.   |
| <b>Address</b>  | 401 N. 10th Street - Philadelphia, PA 19123  |
| <b>Telephone</b>  | 1 (215) 922-1200   |
| <b>Supplier Email</b>   | info@nclonline.com   |
| <b>Contact</b>  | CHEM-TEL   |
| <b>Emergency Phone</b>  | 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 |                  |
|--|--|----------|------------------|
| <b>Physical Hazards</b>                          | Flammable Liquids  | 3        |                  |
| <b>Health Hazards</b>                            | Serious eye damage/eye irritation  | 2        |                  |
|  | Skin corrosion/irritation  | 2        |                  |
|  | Specific target organ toxicity, single exposure  | 3        | narcotic effects |
| <b>OSHA defined hazards</b>                      | Not Classified.  |          |                  |
| <b>Label Elements</b>                            |  |          |                  |
| <b>Hazard Symbol</b>                             |    |          |                  |
| <b>Signal Word</b>                               | Danger   |          |                  |
| <b>Hazard Statement</b>                          | Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.   |          |                  |
| <b>Precautionary statement</b>                   |  |          |                  |
| <b>Prevention</b>                                | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.   |          |                  |
| <b>Response</b>                                  | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. |          |                  |
| <b>Storage</b>                                   | Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.   |          |                  |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.  |          |                  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.  |          |                  |

**Section 3 - Composition/Information on ingredients**

|                             |  |          |         |
|-----------------------------|--|----------|---------|
| <b>Mixture</b>              |  |          |         |
| <b>Hazardous Components</b> | Ingredient Name  | CAS #    | %       |
|                             | 2-Propanol   | 67-63-0  | 20 - 25 |
|                             | 2-Butoxyethanol  | 111-76-2 | 10 - 15 |
|                             | 2-Amino Ethanol  | 141-43-5 | 1 - 5   |
| <b>Composition Comments</b> | Components not listed are either non-hazardous or are below reportable limits. |          |         |

**Section 4 - First-aid Measures**

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
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| <b>Skin contact</b>  | Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.   |
| <b>Eye contact</b>   | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>   | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.   |
| <b>Most Important symptoms /effects, acute and delayed</b>             | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.  |
| <b>Indication of immediate medical attention and special treatment</b> | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| <b>General Information</b>   | Take off all contaminated clothing immediately. 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

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire-fighting equipment /instructions</b>                         | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.   |
| <b>General fire hazards</b>  | Highly flammable liquid and vapor.   |
| <b>Specific Methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |

## Section 6 - Accidental release measures

|   |  |
|---|--|
| <b>Personal precautions, protective equipment and emergency procedures.</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>                | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.<br>Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.<br>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. |
| <b>Environmental precautions</b>  | Avoid discharge into drains, water courses or onto the ground.   |

## Section 7 - Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. 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-Amino Ethanol (CAS 141-43-5) | TWA  | 6 mg/m <sup>3</sup> , 3 ppm    |      |
| 2-Butoxyethanol (CAS 111-76-2) | TWA  | 240 mg/m <sup>3</sup> , 50 ppm |      |
| 2-Propanol (CAS 67-63-0)       | TWA  | 980 mg/m <sup>3</sup> , 400ppm |      |

#### US. ACGIH Threshold Limit Values

| Component                      | Type | Value               | Form |
|--------------------------------|------|---------------------|------|
| 2-Amino Ethanol (CAS 141-43-5) | TWA  | 6 mg/m <sup>3</sup> |      |

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|--------------------------------|------|---------|
| 2-Propanol (CAS 67-63-0)       | TWA  | 200 ppm |
| 2-Butoxyethanol (CAS 111-76-2) | TWA  | 20 ppm  |
| 2-Amino Ethanol (CAS 141-43-5) | STEL | 6 ppm   |
| 2-Amino Ethanol (CAS 141-43-5) | TWA  | 3 ppm   |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                     | Type | Value                            |
|--------------------------------|------|----------------------------------|
| 2-Amino Ethanol (CAS 141-43-5) | STEL | 15 mg/m <sup>3</sup> , 6 ppm     |
| 2-Amino Ethanol (CAS 141-43-5) | TWA  | 8 mg/m <sup>3</sup> , 3 ppm      |
| 2-Butoxyethanol (CAS 111-76-2) | TWA  | 24 mg/m <sup>3</sup> , 5 ppm     |
| 2-Propanol (CAS 67-63-0)       | IDLH | 2000 ppm                         |
| 2-Propanol (CAS 67-63-0)       | STEL | 1225 mg/m <sup>3</sup> , 500 ppm |
| 2-Propanol (CAS 67-63-0)       | TWA  | 980 mg/m <sup>3</sup> , 400 ppm  |

**US. ACGIH. BEIs. Biological Exposure Indices**

| Components                     | Value    | Determinate                              | Specimen            | Sampling Time |
|--------------------------------|----------|--|---------------------|---------------|
| 2-Propanol (CAS 67-63-0)       | 200 mg/g | Butoxyacetic acid (BAA), with hydrolysis | Creatinine in urine | *             |
| 2-Propanol (CAS 67-63-0)       | 40 mg/l  | Acetone                                  | Urine               | *             |
| 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. |

**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. Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.)**

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

**US. Tennessee. OELs Occupational Exposure Limkits, Table Z1A**

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

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection</b>                |  |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.  |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing. Wear protective gloves.  |
| <b>Respiratory protection</b>         | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.   |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b> | When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## Section 9 - Physical and chemical properties

|                       |         |
|-----------------------|---------|
| <b>Appearance</b>     |         |
| <b>Physical state</b> | Liquid. |

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|   |                              |
|---|------------------------------|
| <b>Form</b>   | Dark opaque, thin liquid.    |
| <b>Color</b>  | Dark Blue.                   |
| <b>Odor</b>   | Alcohol.                     |
| <b>Odor threshold</b>                               | Not available.               |
| <b>pH</b>   | 11.5                         |
| <b>Melting point/freezing point</b>                 | Not relevant.                |
| <b>Initial boiling point and boiling range</b>      | 177 - 212°F (80.6 - 100°C)   |
| <b>Flash point</b>                                  | 76°F (24.4°C) Tag Closed Cup |
| <b>Evaporation rate</b>                             | Not available.               |
| <b>Flammability (solid, gas)</b>                    | Not applicable.              |
| <b>Upper/lower flammability or explosive limits</b> |                              |
| <b>Flammability limit - lower (%)</b>               | Not available.               |
| <b>Flammability limit - upper (%)</b>               | Not available.               |
| <b>Explosive limit - lower (%)</b>                  | Not available.               |
| <b>Explosive limit - upper (%)</b>                  | Not available.               |
| <b>Vapor pressure</b>                               | Not available.               |
| <b>Vapor density</b>                                | Not available.               |
| <b>Relative density</b>                             | 0.94 ± 0.01                  |
| <b>Relative density temperature</b>                 | 75 °F (23.9 °C)              |
| <b>Solubilities (water)</b>                         | Completely soluble.          |
| <b>Partition Coefficient n-octanol/water</b>        | Not available                |
| <b>Auto-ignition temperature</b>                    | Not Available                |
| <b>Decomposition temperature</b>                    | Not Available                |
| <b>Viscosity</b>                                    | <10 cSt                      |
| <b>Viscosity Temperature</b>                        | 75 °F (23.9 °C)              |

## Section 10 - Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to Avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Isocyanates. Chlorine.  |
| <b>Hazardous Decomposition Products</b>   | No hazardous decomposition products are known.   |

## Section 11 - Toxicological information

### Information on likely routes of exposure

|   |  |
|---|--|
| <b>Ingestion</b>  | May be harmful if swallowed.   |
| <b>Inhalation</b>   | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.   |
| <b>Skin contact</b>   | Causes skin irritation.<br>Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.   |
| <b>Eye contact</b>  | Causes serious eye irritation.   |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |

### Information on toxicological effects.

**Acute toxicity**                      Narcotic effects.

| Components                     | Level | Type       | Code | Species    | Results          |
|--------------------------------|-------|------------|------|------------|------------------|
| 2-Amino Ethanol (CAS 141-43-5) | Acute | Dermal     | LD50 | Rabbit     | 1025 mg/kg       |
|                                | Acute | Oral       | LD50 | Rat        | 1715 mg/kg       |
| 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        |
|                                | Acute | Oral       | LD50 | Rat        | 560 mg/kg        |

**Skin corrosion/irritation**                      Causes skin irritation.

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| <b>Serious eye damage/ eye irritation</b>                     | Causes serious eye irritation.  |   |        |         |                                |   |   |
|---|---|---|--------|---------|--------------------------------|---|---|
| <b>Respiratory sensitization</b>                              | Not a respiratory sensitizer.   |   |        |         |                                |   |   |
| <b>Skin sensitization</b>                                     | This product is not expected to cause skin sensitization.   |   |        |         |                                |   |   |
| <b>Germ cell mutagenicity</b>                                 | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  |   |        |         |                                |   |   |
| <b>Carcinogenicity</b>  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.   |   |        |         |                                |   |   |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b> |   |   |        |         |                                |   |   |
|   | <table><thead><tr><th>Component</th><th>Result</th><th>Comment</th></tr></thead><tbody><tr><td>2-Butoxyethanol (CAS 111-76-2)</td><td>3</td><td>Not classifiable as to carcinogenicity to humans.</td></tr></tbody></table> | Component   | Result | Comment | 2-Butoxyethanol (CAS 111-76-2) | 3 | Not classifiable as to carcinogenicity to humans. |
| Component   | Result  | Comment   |        |         |                                |   |   |
| 2-Butoxyethanol (CAS 111-76-2)                                | 3   | Not classifiable as to carcinogenicity to humans. |        |         |                                |   |   |
| <b>Reproductive toxicity</b>                                  | This product is not expected to cause reproductive or developmental effects.  |   |        |         |                                |   |   |
| <b>Specific target organ toxicity - single exposure</b>       | May cause drowsiness and dizziness.   |   |        |         |                                |   |   |
| <b>Specific target organ toxicity - repeated exposure</b>     | Not classified.   |   |        |         |                                |   |   |
| <b>Aspiration hazard</b>                                      | Not an aspiration hazard.   |   |        |         |                                |   |   |
| <b>Chronic effects</b>  | May be harmful if absorbed through skin. Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.                             |   |        |         |                                |   |   |

## Section 12 - Ecological Information

**Ecotoxicity** The product 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)

2-Amino Ethanol, 141-43-5

### Aquatic

| Level | Type      | Code | Species  | Test Results       |
|-------|-----------|------|--|--------------------|
| Acute | Algae     | EC50 | Selenastrum capricornutum (new name)<br>Pseudokirchnerella subca | 2.5 mg/l, 48 hours |
|       | Crustacea | EC50 | Daphnia magna  | 65 mg/l, 48 hours  |
|       | Fish      | LC50 | Goldfish (Carassius auratus)                                     | 170 mg/l, 96 hours |
|       | Fish      | LC50 | Cyprinus carpio  | 349 mg/l, 96 hours |

**Persistence and degradability** The product is expected to be biodegradable.

**Bioaccumulative potential** Not known.

### Partition coefficient n-octanol / water log (Kow)

| Components                     | Results |
|--------------------------------|---------|
| 2-Propanol (CAS 67-63-0)       | 0.05    |
| 2-Butoxyethanol (CAS 111-76-2) | 0.83    |
| 2-Amino Ethanol (CAS 141-43-5) | -1.31   |

**Mobility in soil** 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

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

## Section 14 - Transport information

### DOT

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1987  |
| <b>Proper shipping name</b>         | ALCOHOLS SOLUTION, N.O.S. (2-PROPANOL)                                  |
| <b>Transport hazard class(es)</b>   | 3   |
| <b>Subsidiary class(es)</b>         | -   |
| <b>Packing group</b>                | III   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Labels required</b>              | 3   |
| <b>Special provisions</b>           | B1, IB3, T4, TP1, TP29  |
| <b>Packaging exemption</b>          | 150   |

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| <b>Packaging non bulk</b>  | 203   |
| <b>Packaging bulk</b>  | 242   |
| <b>IATA</b>  |   |
| <b>UN number</b>   | UN1987  |
| <b>UN proper shipping name</b>   | ALCOHOLS SOLUTION, N.O.S. (2-PROPANOL)                                  |
| <b>Transport hazard class(es)</b>  | 3   |
| <b>Subsidiary class(es)</b>  | -   |
| <b>Packaging group</b>   | III   |
| <b>Environmental hazards</b>   | No  |
| <b>ERG Code</b>  | 3L  |
| <b>Special precautions for user</b>  | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other Information</b>   |   |
| <b>Packaging Exceptions</b>  | LTD QTY, Y203   |
| <b>IMDG</b>  |   |
| <b>UN number</b>   | UN1987  |
| <b>UN proper shipping name</b>   | ALCOHOLS SOLUTION, N.O.S. (2-PROPANOL)                                  |
| <b>Transport hazard class(es)</b>  | 3   |
| <b>Subsidiary class(es)</b>  | -   |
| <b>Packaging group</b>   | III   |
| <b>Environmental hazards</b>   | No  |
| <b>Marine pollutant</b>  |   |
| <b>Labels required</b>   | 3   |
| <b>EmS</b>   | F-E, S-D  |
| <b>Special precautions for user</b>  | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code</b> | This substance/mixture is not intended to be transported in bulk.       |

## Section 15 - Regulatory Information

|   |  |          |  |
|---|--|----------|--|
| <b>US federal regulations</b>   | 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. |          |  |
| <b>TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)</b>                     | Not regulated.   |          |  |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>               | Not listed   |          |  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                                   |  |          |  |
| Components  |  | Result   |  |
| 2-Butoxyethanol (CAS 111-76-2)  |  | LISTED   |  |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>                      |  |          |  |
| <b>Hazard Categories</b>  | Immediate Hazard   | Yes      |  |
|   | Delayed Hazard   | No       |  |
|   | Fire Hazard  | Yes      |  |
|   | Pressure Hazard  | No       |  |
|   | Reactivity Hazard  | No       |  |
| <b>SARA 302 Extremely hazardous substance</b>   | Not listed.  |          |  |
| <b>SARA 311/312 Hazardous chemical</b>  | Yes  |          |  |
| <b>SARA 313 (TRI reporting)</b>   |  |          |  |
| Chemical name   | CAS #  | % by wt. |  |
| 2-Butoxyethanol   | 111-76-2   | 10 - 15  |  |
| <b>Other federal regulations</b>  |  |          |  |
| <b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List</b>             | Not regulated.   |          |  |
| <b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b> | Not regulated.   |          |  |
| <b>Safe Drinking Water Act (SDWA)</b>   | Not regulated.   |          |  |
| <b>Food and Drug Administration (FDA)</b>   | Not regulated.   |          |  |
| <b>US state regulations</b>   |  |          |  |
| <b>US.Massachusetts RTK - Substance List</b>  | Components   |          |  |
|   | 2-Propanol (CAS 67-63-0)   |          |  |
|   | 2-Butoxyethanol (CAS 111-76-2)   |          |  |
|   | 2-Amino Ethanol (CAS 141-43-5)   |          |  |
| <b>US.New Jersey Worker and Community Right-to-Know Act</b>                             | Components   |          |  |
|   | 2-Propanol (CAS 67-63-0)   |          |  |
|   | 2-Butoxyethanol (CAS 111-76-2)   |          |  |
|   | 2-Amino Ethanol (CAS 141-43-5)   |          |  |

# SAFETY DATA SHEET

US.Pennsylvania RTK - Hazardous Substances

Components  
 2-Propanol (CAS 67-63-0)  
 2-Butoxyethanol (CAS 111-76-2)  
 2-Amino Ethanol (CAS 141-43-5)

US.Rhode Island RTK

Components  
 2-Butoxyethanol (CAS 111-76-2)  
 2-Amino Ethanol (CAS 141-43-5)  
 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to expose you to any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| 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)               | Yes                    |
| 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** 1/17/2021  
**Version #** 01  
**HMIS Hazard Codes** Health 2 Flammability 3 Physical Hazard 0 PPE 0

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