# Safety Data Sheet

**Item 635**

**Issue Date:** 15-Jan-2015 **Revision Date:** 03-Oct-2023 **Version** 2

## 1. IDENTIFICATION

**Product identifier**

**Product Name** All Purpose Orange Ayd

**Other means of identification**

**SDS #** 1ST-AYD-019

**Product Code** 635

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Cleaning Agent.

**Details of the supplier of the safety data sheet**

**Distributor**
1st Ayd Corporation
1325 Gateway Drive
Elgin, IL 60123

**Emergency telephone number**

**Company Phone Number** (847) 622-0001
**Emergency Telephone** 1-844-845-3129 or 1-352-326-7641

## 2. HAZARDS IDENTIFICATION

**Appearance** Red liquid **Physical state** Liquid **Odor** Citrus

**Classification**

| | |
|---|---|
| Skin corrosion/irritation | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |

**Signal Word**
**Danger**

**Hazard statements**
Causes severe skin burns and eye damage
May cause an allergic skin reaction

**Precautionary Statements - Prevention**
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN: Wash with plenty of water and soap
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
Immediately call a poison center or doctor/physician

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|---|---|---|
| Ethylene Glycol Monobutyl Ether | 111-76-2 | <6 |
| d-Limonene | 5989-27-5 | <10 |
| Sodium metasilicate | 6834-92-0 | <5 |
| Sodium hydroxide | 1310-73-2 | >1 |
| EDTA | 60-00-4 | <5 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

## 4. FIRST AID MEASURES

**Description of first aid measures**

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**Skin Contact** Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately call a poison center or doctor/physician.

**Ingestion** Do NOT induce vomiting. Give large quantities of water. If available, give several glasses of milk or acidic beverages (tomato or orange juice, carbonated soft drinks). Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical attention immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes severe skin burns and eye damage. May cause an allergic skin reaction. May be irritating to the mouth, throat and stomach. Inhalation of low concentrations may cause mild irritation to eyes, nose, and throat. High concentrations may result in headache, drowsiness, and central nervous system depression.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Alcohol foam.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Closed containers may rupture/explode when exposed to temperatures above 120°F.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO2).

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Contain and collect with an inert absorbent and place into an appropriate container for disposal. Flush spill area with water to reduce slipping hazards.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Keep containers closed when not in use. For industrial or professional use only.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials** Strong oxidizers. Ketones. Nitric acid. Sulfuric acid. Halogens. Halogen compounds.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m$^3$<br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m$^3$<br>(vacated) S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m$^3$ |
| Sodium metasilicate<br>6834-92-0 | 2 mg/m$^3$ | 2 mg/m$^3$ | - |
| Sodium hydroxide<br>1310-73-2 | Ceiling: 2 mg/m$^3$ | TWA: 2 mg/m$^3$ | IDLH: 10 mg/m$^3$<br>Ceiling: 2 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

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

**Eye/Face Protection** Safety glasses.

**Skin and Body Protection** Rubber gloves.

**Respiratory Protection** No protection is ordinarily required under normal conditions of use and with adequate ventilation.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Liquid
**Appearance** Red liquid
**Color** Red
**Odor** Citrus
**Odor Threshold** Not determined

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | 12.5 (as received) | |
| **Melting point / freezing point** | 0 °C / 32 °F | |
| **Initial boiling point and boiling range** | 100 °C / 212 °F | |
| **Flash point** | None established | |
| **Evaporation Rate** | <1 | N-butyl acetate |
| **Flammability (Solid, Gas)** | Liquid-Not applicable | |
| **Flammability Limit in Air** | | |
| **Upper flammability or explosive limits** | None established | |
| **Lower flammability or explosive limits** | None established | |
| **Vapor Pressure** | None established | |
| **Vapor Density** | None established | |
| **Relative Density** | 1.04 | |
| **Water Solubility** | Completely soluble | |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Autoignition temperature** | No data available | |

| | |
|---|---|
| **Hyphen** | Not determined |
| **Kinematic viscosity** | Not determined |
| **Dynamic Viscosity** | Not determined |
| **Explosive Properties** | Not determined |
| **Oxidizing Properties** | Not determined |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**
Keep separated from incompatible substances. Avoid temperatures above 120°F. Keep out of reach of children.

**Incompatible materials**
Strong oxidizers. Ketones. Nitric acid. Sulfuric acid. Halogens. Halogen compounds.

**Hazardous decomposition products**
Carbon monoxide. Carbon dioxide ($CO_2$).

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns. May cause an allergic skin reaction.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not ingest.

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Nonylphenol Ethoxylate<br>127087-87-0 | = 1310 mg/kg ( Rat ) | - | - |
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | = 470 mg/kg ( Rat ) | = 435 mg/kg ( Rabbit ) | = 450 ppm ( Rat ) 4 h<br>= 486 ppm ( Rat ) 4 h |
| d-Limonene<br>5989-27-5 | = 5200 mg/kg ( Rat )<br>= 4400 mg/kg ( Rat ) | > 5 g/kg ( Rabbit ) | - |
| Sodium metasilicate<br>6834-92-0 | = 1153 mg/kg ( Rat ) | - | - |
| Sodium hydroxide<br>1310-73-2 | = 325 mg/kg ( Rat ) | = 1350 mg/kg ( Rabbit ) | - |
| EDTA<br>60-00-4 | > 2000 mg/kg ( Rat ) | - | - |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

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

**Sensitization** May cause an allergic skin reaction.

**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Ethylene Glycol Monobutyl Ether 111-76-2 | A3 | Group 3 | | |
| d-Limonene 5989-27-5 | | Group 3 | | X |

**Legend**

***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A3 - Animal Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 3 IARC components are "not classifiable as human carcinogens"*
***OSHA (Occupational Safety and Health Administration of the US Department of Labor)***
*X - Present*

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**Oral LD50** 5,590.00 mg/kg
**Dermal LD50** 14,052.00 mg/kg
**ATEmix (inhalation-dust/mist)** 40.40 mg/l
**ATEmix (inhalation-vapor)** 40.40 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Component Information**

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Ethylene Glycol Monobutyl Ether 111-76-2 | | LC50: =1490mg/L (96h, Lepomis macrochirus)<br>LC50: =2950mg/L (96h, Lepomis macrochirus) | EC50: >1000mg/L (48h, Daphnia magna) |
| d-Limonene 5989-27-5 | | LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas)<br>LC50: =35mg/L (96h, Oncorhynchus mykiss) | |
| Sodium metasilicate 6834-92-0 | | LC50: =210mg/L (96h, Brachydanio rerio) | |
| Sodium hydroxide 1310-73-2 | | LC50: =45.4mg/L (96h, Oncorhynchus mykiss) | |
| EDTA 60-00-4 | EC50: =1.01mg/L (72h, Desmodesmus subspicatus) | LC50: 34 - 62mg/L (96h, Lepomis macrochirus)<br>LC50: 44.2 - 76.5mg/L (96h, Pimephales promelas) | EC50: =113mg/L (48h, Daphnia magna) |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| Chemical name | Partition coefficient |
|---|---|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | 0.81 |
| d-Limonene<br>5989-27-5 | 4.38 |

**Other adverse effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

| Chemical name | California Hazardous Waste Status |
|---|---|
| d-Limonene<br>5989-27-5 | Toxic |
| Sodium hydroxide<br>1310-73-2 | Toxic<br>Corrosive |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG**

**Marine Pollutant** This material may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical name | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AIIC |
|---|---|---|---|---|---|---|---|---|---|
| Nonylphenol Ethoxylate | X | ACTIVE | X | X | X | X | X | X | X |
| Ethylene Glycol Monobutyl Ether | X | ACTIVE | X | X | X | X | X | X | X |
| d-Limonene | X | ACTIVE | X | X | X | X | X | X | X |
| Sodium metasilicate | X | ACTIVE | X | X | X | X | X | X | X |
| Sodium hydroxide | X | ACTIVE | X | X | X | X | X | X | X |
| EDTA | X | ACTIVE | X | X | X | X | X | X | X |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

## US Federal Regulations

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Sodium hydroxide<br>1310-73-2 | 1000 lb | | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| EDTA<br>60-00-4 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Nonylphenol Ethoxylate - 127087-87-0 | 127087-87-0 | <20 | 1.0 |
| Ethylene Glycol Monobutyl Ether - 111-76-2 | 111-76-2 | <6 | 1.0 |

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Sodium hydroxide | 1000 lb | | | X |
| EDTA | 5000 lb | | | X |

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | X | X | X |
| Sodium hydroxide<br>1310-73-2 | X | X | X |
| EDTA<br>60-00-4 | X | X | X |

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## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health hazards** | **Flammability** | **Instability** | **Special hazards** |
| | 2 | 1 | 1 | - |
| **HMIS** | **Health hazards** | **Flammability** | **Physical hazards** | **Personal Protection** |
| | - | - | - | Not determined |

**Issue Date:** 15-Jan-2015
**Revision Date:** 03-Oct-2023
**Revision Note:** Regulatory review

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**