



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Lesco Greenflo 30-0-0

**Other means of identification**

**Product code** 32063

**Recommended use** Turf- fertilizer

**Recommended restrictions** Refer to product label.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** Brandt Consolidated, Inc.

**Address** 2935 South Koke Mill Road  
Springfield, IL 62711  
United States

**Telephone** Corporate Office 1-217-547-5800

**Website** www.brandt.co

**E-mail** msds@brandt.co

**Contact person** EH&S / Regulatory Department

**Emergency phone number** CHEMTREC (24 hours):  
USA, Canada, Puerto Rico 1-800-424-9300  
Virgin Islands 1-800-424-9300  
International Maritime +1 (703) 527-3887

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

### Label elements

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement**

**Prevention** Observe good industrial hygiene practices.

**Response** Take off contaminated clothing and wash it 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.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name                            | Common name and synonyms | CAS number | %          |
|------------------------------------------|--------------------------|------------|------------|
| Urea                                     |                          | 57-13-6    | 20 - < 30* |
| Ammonia                                  |                          | 7664-41-7  | < 0.1*     |
| Copper diammonium EDTA                   |                          | 67989-88-2 | < 0.1*     |
| Other components below reportable levels |                          |            | 60 - < 70  |

## 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

|                                                                               |                                                                                                                  |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                                                           | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |
| <b>Eye contact</b>                                                            | Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.                    |
| <b>Ingestion</b>                                                              | Rinse mouth. Get medical attention if symptoms occur.                                                            |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Dusts may irritate the respiratory tract, skin and eyes.                                                         |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.                                                                                           |
| <b>General information</b>                                                    | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

|                                                                      |                                                                                               |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).                                   |
| <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>                    | 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>                          | Use water spray to cool unopened containers.                                                  |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>                                          | No unusual fire or explosion hazards noted.                                                   |

## 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.                                                                                                                                                                                                       |
| <b>Methods and materials for containment and cleaning up</b>               | Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.<br><br>Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.<br><br>Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 7. Handling and storage

|                                                                     |                                                                                                                                                                          |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).                                 |

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

| Components              | Type | Value              |
|-------------------------|------|--------------------|
| Ammonia (CAS 7664-41-7) | PEL  | 35 mg/m3<br>50 ppm |

#### US. ACGIH Threshold Limit Values

| Components              | Type | Value  | Form |
|-------------------------|------|--------|------|
| Ammonia (CAS 7664-41-7) | STEL | 35 ppm |      |
|                         | TWA  | 25 ppm |      |

**US. ACGIH Threshold Limit Values**

| Components                                 | Type | Value     | Form           |
|--------------------------------------------|------|-----------|----------------|
| Copper diammonium EDTA<br>(CAS 67989-88-2) | TWA  | 1 mg/m3   | Dust and mist. |
|                                            |      | 0.2 mg/m3 | Fume.          |

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

| Components                                 | Type | Value     | Form           |
|--------------------------------------------|------|-----------|----------------|
| Ammonia (CAS 7664-41-7)                    | STEL | 27 mg/m3  |                |
|                                            |      | 35 ppm    |                |
|                                            | TWA  | 18 mg/m3  |                |
|                                            |      | 25 ppm    |                |
| Copper diammonium EDTA<br>(CAS 67989-88-2) | TWA  | 1 mg/m3   | Dust and mist. |
|                                            |      | 0.1 mg/m3 | Fume.          |

**US. Workplace Environmental Exposure Level (WEEL) Guides**

| Components         | Type | Value    | Form               |
|--------------------|------|----------|--------------------|
| Urea (CAS 57-13-6) | TWA  | 10 mg/m3 | Total particulate. |

**Biological limit values**

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

**Appropriate engineering controls**

Good general ventilation 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. If engineering measures are not sufficient to maintain concentrations of dust/particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other**

Wear suitable protective clothing.

**Respiratory protection**

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

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.

**9. Physical and chemical properties**

|                                                |                           |
|------------------------------------------------|---------------------------|
| <b>Appearance</b>                              | Liquid.                   |
| <b>Physical state</b>                          | Liquid.                   |
| <b>Form</b>                                    | Liquid.                   |
| <b>Color</b>                                   | Light blue                |
| <b>Odor</b>                                    | Not available.            |
| <b>Odor threshold</b>                          | Not available.            |
| <b>pH</b>                                      | 10                        |
| <b>Melting point/freezing point</b>            | Not available.            |
| <b>Initial boiling point and boiling range</b> | 212 °F (100 °C) estimated |
| <b>Flash point</b>                             | Not available.            |
| <b>Evaporation rate</b>                        | Not available.            |
| <b>Flammability (solid, gas)</b>               | Not available.            |

**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** Not available.

**Vapor density** Not available.

**Relative density** 1.25 g/cm<sup>3</sup> (typical)

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

**Explosive properties** Not explosive.

**Oxidizing properties** Not oxidizing.

**Percent volatile** 31.05 % estimated

**Pounds per gallon** 10.43 lb/gal (typical)

**VOC** 14.99 % estimated

**10. Stability and reactivity**

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**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.

**11. Toxicological information****Information on likely routes of exposure**

**Inhalation** Dust may irritate respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Dust or powder may irritate the skin.

**Eye contact** Dust may irritate the eyes.

**Ingestion** Knowledge about health hazard is incomplete.

**Symptoms related to the physical, chemical and toxicological characteristics** Dusts may irritate the respiratory tract, skin and eyes.

**Information on toxicological effects**

**Acute toxicity** Not known.

| Product               | Species | Test Results |
|-----------------------|---------|--------------|
| Lesco Greenflo 30-0-0 |         |              |
| <u>Acute</u>          |         |              |
| Oral                  |         |              |
| LD50                  | Rat     | 28270 mg/kg  |

| Components                                                     | Species                                                                     | Test Results       |
|----------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------|
| Ammonia (CAS 7664-41-7)                                        |                                                                             |                    |
| <u>Acute</u>                                                   |                                                                             |                    |
| Inhalation                                                     |                                                                             |                    |
| LC50                                                           | Mouse                                                                       | 3.36 mg/l, 1 Hours |
|                                                                |                                                                             | 3.31 mg/l, 2 Hours |
|                                                                | Rat                                                                         | 4000 ppm, 1 Hours  |
|                                                                |                                                                             | 2000 ppm, 4 Hours  |
|                                                                |                                                                             | 5.1 mg/l, 1 Hours  |
| Oral                                                           |                                                                             |                    |
| LD50                                                           | Rat                                                                         | 350 mg/kg          |
| Urea (CAS 57-13-6)                                             |                                                                             |                    |
| <u>Acute</u>                                                   |                                                                             |                    |
| Oral                                                           |                                                                             |                    |
| LD50                                                           | Rat                                                                         | 8471 mg/kg         |
| Skin corrosion/irritation                                      | Due to partial or complete lack of data the classification is not possible. |                    |
| Serious eye damage/eye irritation                              | Due to partial or complete lack of data the classification is not possible. |                    |
| Respiratory or skin sensitization                              |                                                                             |                    |
| Respiratory sensitization                                      | Due to partial or complete lack of data the classification is not possible. |                    |
| Skin sensitization                                             | Due to partial or complete lack of data the classification is not possible. |                    |
| Germ cell mutagenicity                                         | Due to partial or complete lack of data the classification is not possible. |                    |
| Carcinogenicity                                                | Due to partial or complete lack of data the classification is not possible. |                    |
| IARC Monographs. Overall Evaluation of Carcinogenicity         |                                                                             |                    |
| Not listed.                                                    |                                                                             |                    |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) |                                                                             |                    |
| Not listed.                                                    |                                                                             |                    |
| US. National Toxicology Program (NTP) Report on Carcinogens    |                                                                             |                    |
| Not listed.                                                    |                                                                             |                    |
| Reproductive toxicity                                          | Due to partial or complete lack of data the classification is not possible. |                    |
| Specific target organ toxicity - single exposure               | Due to partial or complete lack of data the classification is not possible. |                    |
| Specific target organ toxicity - repeated exposure             | Due to partial or complete lack of data the classification is not possible. |                    |
| Aspiration hazard                                              | Due to partial or complete lack of data the classification is not possible. |                    |
| Chronic effects                                                | Prolonged inhalation may be harmful.                                        |                    |

## 12. Ecological information

|                         |      |                                                                                                                                                                                                    |                                     |
|-------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Ecotoxicity</b>      |      | 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. |                                     |
| <b>Product</b>          |      | <b>Species</b>                                                                                                                                                                                     | <b>Test Results</b>                 |
| Lesco Greenflo 30-0-0   |      |                                                                                                                                                                                                    |                                     |
| <b>Aquatic</b>          |      |                                                                                                                                                                                                    |                                     |
| Crustacea               | EC50 | Daphnia                                                                                                                                                                                            | 16731.7324 mg/l, 48 hours estimated |
| Fish                    | LC50 | Fish                                                                                                                                                                                               | 26141.7129 mg/l, 96 hours estimated |
| <b>Components</b>       |      | <b>Species</b>                                                                                                                                                                                     | <b>Test Results</b>                 |
| Ammonia (CAS 7664-41-7) |      |                                                                                                                                                                                                    |                                     |
| <b>Aquatic</b>          |      |                                                                                                                                                                                                    |                                     |
| Fish                    | LC50 | Chinook salmon (Oncorhynchus tshawytscha)                                                                                                                                                          | 0.43 - 0.47 mg/l, 96 hours          |

| Components                                        |                                                                                                                                                                                                                  | Species                                           | Test Results                 |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------|
| Urea (CAS 57-13-6)                                |                                                                                                                                                                                                                  |                                                   |                              |
| Aquatic                                           |                                                                                                                                                                                                                  |                                                   |                              |
| Crustacea                                         | EC50                                                                                                                                                                                                             | Water flea (Daphnia magna)                        | 3910 mg/l, 48 hours          |
| Fish                                              | LC50                                                                                                                                                                                                             | Carp (Leuciscus idus melanotus)                   | > 10000 mg/l, 48 hours       |
|                                                   |                                                                                                                                                                                                                  | Guppy (Poecilia reticulata)                       | 16200 - 18300 mg/l, 96 hours |
|                                                   |                                                                                                                                                                                                                  | Harlequinfish, red rasbora (Rasbora heteromorpha) | 12000 mg/l, 96 hours         |
|                                                   |                                                                                                                                                                                                                  | Mozambique tilapia (Tilapia mossambica)           | 590 - 730 mg/l, 96 hours     |
| Persistence and degradability                     | No data is available on the degradability of any ingredients in the mixture.                                                                                                                                     |                                                   |                              |
| Bioaccumulative potential                         |                                                                                                                                                                                                                  |                                                   |                              |
| Partition coefficient n-octanol / water (log Kow) |                                                                                                                                                                                                                  |                                                   |                              |
| Urea                                              |                                                                                                                                                                                                                  |                                                   | -2.11                        |
| 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.                          |                                                   |                              |
| 13. Disposal considerations                       |                                                                                                                                                                                                                  |                                                   |                              |
| Disposal instructions                             | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.                                                                                                                             |                                                   |                              |
| Local disposal regulations                        | Dispose in accordance with all applicable regulations.                                                                                                                                                           |                                                   |                              |
| Hazardous waste code                              | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                   |                                                   |                              |
| Waste from residues / unused products             | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |                                                   |                              |
| Contaminated packaging                            | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |                                                   |                              |

### 13. Disposal considerations

|                                              |                                                                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.                                                                                                                             |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.                                                                                                                                                           |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

### 14. Transport information

|             |                                   |
|-------------|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b> | Not regulated as dangerous goods. |
| <b>IMDG</b> | Not regulated as dangerous goods. |

### 15. Regulatory information

|                                                                       |                                                                                                                                |         |  |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------|--|
| <b>US federal regulations</b>                                         | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |         |  |
| <b>Toxic Substances Control Act (TSCA)</b>                            |                                                                                                                                |         |  |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>  |                                                                                                                                |         |  |
| Not regulated.                                                        |                                                                                                                                |         |  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                 |                                                                                                                                |         |  |
| Ammonia (CAS 7664-41-7)                                               |                                                                                                                                | Listed. |  |
| Copper diammonium EDTA (CAS 67989-88-2)                               |                                                                                                                                | Listed. |  |
| <b>SARA 304 Emergency release notification</b>                        |                                                                                                                                |         |  |
| AMMONIA (CAS 7664-41-7)                                               |                                                                                                                                | 100 LBS |  |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b> |                                                                                                                                |         |  |
| Not listed.                                                           |                                                                                                                                |         |  |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|---------------|------------|------------------------------|--------------------------------------|---------------------------------------------------|---------------------------------------------------|
|---------------|------------|------------------------------|--------------------------------------|---------------------------------------------------|---------------------------------------------------|

|         |           |     |     |  |  |
|---------|-----------|-----|-----|--|--|
| Ammonia | 7664-41-7 | 100 | 500 |  |  |
|---------|-----------|-----|-----|--|--|

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Ammonia (CAS 7664-41-7)

**Safe Drinking Water Act (SDWA)** Contains component(s) regulated under the Safe Drinking Water Act.

**US state regulations****California Proposition 65**

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Ammonia (CAS 7664-41-7)

**International Inventories**

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | No                     |
| 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)                                          | No                     |
| New Zealand                 | New Zealand Inventory                                                  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply 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).

**16. Other information, including date of preparation or last revision**

**Issue date** 08-05-2020  
**Version #** 01

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its own tests of the Product to determine suitability of the Product for user's particular use.