

**Safety Data Sheet**

acc. to OSHA HCS


Printing date 12/14/2016

Reviewed on 12/14/2016

**1 Identification**

- **Product identifier**
- **Trade name:** *Stagestep ProCleanD*
- **Application of the substance / the mixture** Surface disinfectant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Supplier:  
Stagestep Inc.  
4701 Bath St.  
Philadelphia PA 19137  
Tel: +1 215-636-9000  
Fax: +1 267 672-2912  
E-Mail: [info@stagestep.com](mailto:info@stagestep.com)
- **Information department:**  
Department for product development  
E-Mail: [bill@stagestep.com](mailto:bill@stagestep.com)
- **Emergency telephone number:**  
Stagestep Inc.  
Tel.: +1 215-636-9000 x 117  
+1 215-601-3696  
Mo-Fr 8am - 7pm

**2 Hazard(s) identification**

- **Classification of the substance or mixture**  
GHS08 Health hazard  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
-  GHS05 Corrosion  
Skin Corr. 1A H314 Causes severe skin burns and eye damage.

**Label elements**

- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine  
Acide lactique
- **Hazard statements**  
Causes severe skin burns and eye damage.  
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

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**Trade name:** *Stagestep ProCleanD*

(Contd. of page 1)

Wash thoroughly after handling.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• **NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 0

Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**

Health = \*3

Fire = 0

• **Other hazards** Reactivity = 0• **Results of PBT and vPvB assessment**• **PBT:** Not applicable.• **vPvB:** Not applicable.**3 Composition/information on ingredients**• **Chemical characterization: Mixtures**• **Description:** Mixture of the substances listed below with nonhazardous additions.• **Dangerous components:**

|           |   |      |
|-----------|---|------|
| 2372-82-  | N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine                                | 5-   |
| 69011-36- | Isotridecanol, ethoxylated (<7 -> 15 EO)                                      | 1-5% |
| 68891-38- | Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts | 1-5% |
| 79-33-    | Acide lactique  | 1-5% |

**4 First-aid measures**• **Description of first aid measures**• **General information:**

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

• **After inhalation:**

Take affected persons into fresh air and keep quiet.

Use a respiration bag or breathing device.

Call a doctor immediately.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:**

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• **After swallowing:**

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Rinse out mouth and then drink plenty of water.

• **Information for doctor:**• **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

(Contd. on page 3)

(Contd. of page 2)

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

No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Fire-extinguishing powder
  - Water spray
  - Foam
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
  - Cool endangered receptacles with water spray.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Avoid contact with the eyes and skin.
  - Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use neutralizing agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

None of the ingredients is listed.

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
  - Follow instructions on the label and in the Technical Product Information Sheet.
  - Avoid contact with the eyes and skin.
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.

(Contd. on page 4)

(Contd. of page 3)

- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Keep receptacle tightly sealed.
  - Store receptacle in a well ventilated area.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level -).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Face protection



Tightly sealed goggles

(Contd. on page 5)

(Contd. of page 4)

· **Body protection:** Light weight protective clothing

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

|  |   |
|--|---|
| · <b>General Information</b>               |   |
| · <b>Appearance:</b>                       |   |
| Form:                                      | Fluid   |
| Color:                                     | Yellowish                                     |
| · Odor:                                    | Amine-like                                    |
| · Odor threshold:                          | Not determined.                               |
| · pH-value at 20 °C (68 °F):               | 10  |
| · <b>Change in condition</b>               |   |
| Melting point/Melting range:               | Undetermined.                                 |
| Boiling point/Boiling range:               | 100 °C (212 °F)                               |
| · Flash point:                             | Not applicable.                               |
| · Flammability (solid, gaseous):           | Not applicable.                               |
| · Decomposition temperature:               | Not determined.                               |
| · Auto igniting:                           | Product is not selfigniting.                  |
| · Danger of explosion:                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                 |   |
| Lower:                                     | Not determined.                               |
| Upper:                                     | Not determined.                               |
| · Vapor pressure at 20 °C (68 °F):         | 23 hPa (17 mm Hg)                             |
| · Density at 20 °C (68 °F):                | 1.022 g/cm <sup>3</sup> (8.529 lbs/gal)       |
| · Relative density                         | Not determined.                               |
| · Vapor density                            | Not determined.                               |
| · Evaporation rate                         | Not determined.                               |
| · <b>Solubility in / Miscibility with</b>  |   |
| Water:                                     | Fully miscible.                               |
| · Partition coefficient (n-octanol/water): | Not determined.                               |
| · <b>Viscosity:</b>                        |   |
| Dynamic at 20 °C (68 °F):                  | 5 mPas  |
| Kinematic:                                 | Not determined.                               |
| · Other information                        | No further relevant information available.    |

## 10 Stability and reactivity

- **Reactivity** see section "Possibility of hazardous reactions".
- **Chemical stability**  
Stable at ambient temperature.  
No information available.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Reacts with strong oxidizing agents.

(Contd. on page 6)

(Contd. of page 5)

· **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity

##### 2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

|      |      |                            |
|------|------|----------------------------|
| Oral | LD50 | 261 mg/kg (rat) (OECD 401) |
| Derm | 0    | >600 mg/kg (rat)           |

##### 69011-36-5 Isotridecanol, ethoxylated (<7 - > 15 EO)

|      |      |                      |
|------|------|----------------------|
| Oral | LD50 | 300-2000 mg/kg (rat) |
| Derm | 0    | >2000 mg/kg (rat)    |

##### 79-33-4 Acide lactique

|      |      |                  |
|------|------|------------------|
| Oral | LD50 | 3543 mg/kg (rat) |
|------|------|------------------|

##### 68891-38-3 Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts

|      |      |                              |
|------|------|------------------------------|
| Oral | LD50 | >2000 mg/kg (rat) (OECD 401) |
| Derm | 0    | >2000 mg/kg (rat) (OECD 402) |

### · Primary irritant effect:

- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.

### · Sensitization:

No sensitizing effects known.

### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

### · NTP (National Toxicology Program)

None of the ingredients is listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

### · Toxicity

#### · Aquatic toxicity:

##### 2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

|          |  |
|----------|--|
| EC50/48h | 0.073 mg/l (Daphnia magna)                                 |
| EC50/96h | 0.68 mg/l (Oncorhynchus mykiss (Rainbow trout)) (OECD 203) |

##### 69011-36-5 Isotridecanol, ethoxylated (<7 - > 15 EO)

|                   |   |
|-------------------|---|
| EC50/48h (static) | >1 - 10 mg/l (Daphnia magna) (OECD 202)             |
| LC50/96h          | >1 - 10 mg/l (Cyprinus carpio (Karpfen)) (OECD 203) |

##### 68891-38-3 Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts

|          |                                     |
|----------|-------------------------------------|
| EC50/48h | 7.4 mg/l (Daphnia magna) (OECD 202) |
|----------|-------------------------------------|

(Contd. on page 7)

(Contd. of page 6)

LC50/96h (dynamic) 7.1 mg/l (Danio rerio) (OECD 203)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
  - Avoid transfer into the environment.
  - Water hazard class 2 (Self-assessment): hazardous for water
  - Do not allow product to reach ground water, water course or sewage system.
  - Must not reach bodies of water or drainage ditch undiluted or unneutralized.
  - Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
  - Disposal must be made according to official regulations.
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
  - Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

UN Number

· DOT, ADR, IMDG, IATA

UN1903

· UN proper shipping name

· DOT

Disinfectant liquid corrosive n.o.s. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)

· ADR

1903 Disinfectant liquid corrosive n.o.s. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine) MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

· IMDG

DISINFECTANT LIQUID CORROSIVE N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine) MARINE POLLUTANT

· IATA

DISINFECTANT LIQUID CORROSIVE N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)

· Transport hazard class(es)

· DOT






· Class

8 Corrosive substances

(Contd. on page 8)

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|   |   |                    |
|---|---|--------------------|
| · Label   | 8   | (Contd. of page 7) |
| · ADR, IMDG   |   |                    |
|   |   |                    |
| · Class   | 8 Corrosive substances  |                    |
| · Label   | 8   |                    |
| · IATA  |   |                    |
|    |   |                    |
| · Class   | 8 Corrosive substances  |                    |
| · Label   | 8   |                    |
| · Packing group   |   |                    |
| · DOT, ADR, IMDG, IATA  | III   |                    |
| · Environmental hazards:  | Product contains environmentally hazardous substances:<br>N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine  |                    |
| · Marine pollutant:   | Symbol (fish and tree)  |                    |
| · Special marking (ADR):  | Symbol (fish and tree)  |                    |
| · Special precautions for user  | Warning: Corrosive substances   |                    |
| · Danger code (Kemler):   | RN  |                    |
| · FMS Number:   | F.A.S.-R  |                    |
| · Stowage Category  | A   |                    |
| · Transport in bulk according to MARPOL73/78 and the IBC Code   | II of<br>Not applicable.  |                    |
| · Transport/Additional information:   |   |                    |
| · ADR   |   |                    |
| · Exempted quantities (EQ)  | Code: F1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml  |                    |
| · IMDG  |   |                    |
| · Limited quantities (LQ)   | 5l  |                    |
| · Exempted quantities (EQ)  | Code: F1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml  |                    |
| · UN "Model Regulation":  | UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S.<br>(N-(3-AMINOPROPYL)-N-DODECYL PROPANE-1,3-DIAMINE) 8 III MARINE POLLUTANT/<br>ENVIRONMENTALLY HAZARDOUS |                    |

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

(Contd. on page 9)



(Contd. of page 8)

- **TSCA (Toxic Substances Control Act):**

|           |   |
|-----------|---|
| 2372-82-  | N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine      |
| 69011-36- | Isotridecanol, exthoxylated (<7 - > 15 EO)          |
| 5064-31-  | trisodium nitrilotriacetate                         |
| 126-92-   | sodium 2-ethylhexyl sulfate                         |
| 7732-18-  | water, distilled, conductivity or of similar purity |

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Acide lactique

- **Hazard statements**

Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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(Contd. on page 10)

**Safety Data Sheet**

acc. to OSHA HCS

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(Contd. of page 9)

**Trade name:** *Stagelstep ProCleanD***16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Department for product development
- **Contact:** Bill Goldberg
- **Date of preparation / last revision** 12/14/2016 / 3

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- **\* Data compared to the previous version altered.**

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