

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018

FLUSH SUPERSEDES: 09/14/2015

# **1. PRODUCT AND COMPANY IDENTIFICATION**

| FLUSH                    |
|--------------------------|
| ADJ-0007                 |
| 1000218749<br>None       |
| and restrictions on use  |
| Spray Cleaner.           |
| No information available |
| data sheet               |
|                          |
| NC.                      |
|                          |

LOVELAND PRODUCTS CANADA, IN 789 Donnybrook Drive Dorchester, Ontario N0L 1G5

#### Emergency telephone number Company Phone Number Emergency Telephone

1-800-328-4678 Chemtrec 1-800-424-9300 1-800-561-8273

# 2. HAZARDS IDENTIFICATION

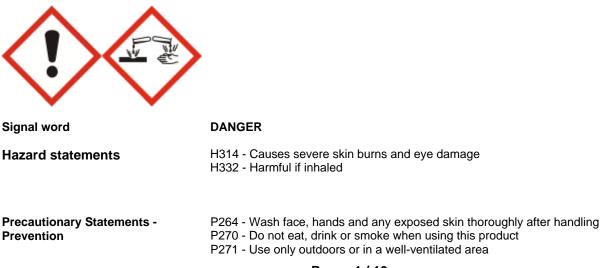
#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Acute toxicity - Oral                     | Category 4 - (H302)                |
|---|------------------------------------|
| Acute toxicity - Inhalation (Gases)       | Category 4 - (H332)                |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 - (H332)                |
| Skin corrosion/irritation                 | Category 1 Sub-category B - (H314) |
| Serious eye damage/eye irritation         | Category 1 - (H318)                |

Label elements





| JAFE                                   | FLUSH   |
|--|---|
|  | SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 SUPERSEDES: 09/14/2015   P260 - Do not breathe dust/fume/gas/mist/vapors/spray SUPERSEDES: 09/14/2015 |
|  | P280 - Wear protective gloves/protective clothing/eye protection/face protection  |
| Precautionary Statements -<br>Response | P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel<br>unwell  |
|  | P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated<br>clothing. Rinse skin with water/shower                           |
|  | P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing   |
|  | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.   |
|  | Remove contact lenses, if present and easy to do. Continue rinsing  |
|  | P310 - Immediately call a POISON CENTER or doctor/physician   |
|  | P312 - Call a POISON CENTER or doctor/physician if you feel unwell  |
|  | P330 - Rinse mouth  |
|  | P331 - Do NOT induce vomiting   |
|  | P363 - Wash contaminated clothing before reuse  |
| Precautionary Statements -<br>Storage  | P405 - Store locked up  |
| Precautionary Statements -<br>Disposal | P501 - Dispose of contents/ container to an approved waste disposal plant   |
| Hererdo net etherwise eleccific        |   |

**FLUSH** 

Hazards not otherwise classified (HNOC) Not applicable

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### <u>Mixture</u>

| Chemical Name | CAS No    | Weight-% | GHS Classification  | Trade<br>Secret |
|---------------|-----------|----------|---|-----------------|
| Ammonia       | 7664-41-7 | 10 - 30  | Acute Tox. 3 (H331)<br>Skin Corr. 1B (H314)<br>Aquatic Acute 1 (H400)<br>Flam. Gas 2 (H221)<br>Press. Gas | *               |

\*The exact percentage (concentration) of composition has been withheld as a trade secret. OSHA Hazard Communication 29 CFR 1910.1200



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|                                    | 4. FIRST AID MEASURES  |  |  |
|------------------------------------|--|--|--|
| Description of first aid measures  |  |  |  |
| General advice                     | Get medical attention if symptoms occur.   |  |  |
| Eye contact                        | Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. |  |  |
| Skin contact                       | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  |  |  |
| Inhalation                         | Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.   |  |  |
| Ingestion                          | Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.               |  |  |
| Self-protection of the first aider | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.  |  |  |
| Most important symptoms and effe   | cts, both acute and delayed  |  |  |
| Symptoms                           | No information available.  |  |  |
| Indication of any immediate medica | al attention and special treatment needed  |  |  |
| Treatment:                         | Treat symptomatically. Symptoms may be delayed. For a medical emergency involving this product call: 1-800-561-8273. Take container, label or product name with you when seeking medical attention.  |  |  |
| Note to physicians                 | No specific antidote. Treat symptomatically.   |  |  |
| Antidotes                          | No data available  |  |  |
| 5. FIRE-FIGHTING MEASURES          |  |  |  |

#### Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO<sub>2</sub>, dry chemical, or foam

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

#### Environmental precautions

**Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

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

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. After cleaning, flush away traces with water.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

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

| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. |
|--------------------|--|
|                    |  |

Incompatible materials Incompatible with strong acids and bases. Incompatible with oxidizing agents.



SAFETY DATA SHEET SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| 0. EXI COURE CONTROLON ERCONALT ROTEOTOR |  |  |
|--|--|--|
| Control parameters                       |  |  |
| Exposure Guidelines                      |  |  |
| Appropriate engineering controls         |  |  |
| Engineering Controls                     | Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.  |  |
| Individual protection measures, su       | ch as personal protective equipment  |  |
| Eye/face protection                      | Tight sealing safety goggles. Face protection shield.  |  |
| Skin and body protection                 | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.   |  |
| Respiratory protection                   | Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air respirator if exposure concentrations are unknown.                                       |  |
| General Hygiene Considerations           | When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection. |  |



SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 9. PHYSICAL AND CHEMICAL PROPERTIES FLUSH SUPERSEDES: 09/14/2015

#### Information on basic physical and chemical properties

| Physical state<br>Appearance<br>Color<br>Odor<br>Odor threshold          | Liquid<br>Aqueous solution<br>Yellow<br>Ammonia<br>No data available                                  |
|--|---|
| <u>Property</u><br>pH<br>Melting point / freezing point<br>Boiling point | <u>Values (Remarks - Method)</u><br>5.0 - 7.0 (1% solution)<br>No data available<br>No data available |
| Flash point<br>Evaporation rate<br>Flammability (solid, gas)             | > 100 °C / > 212 °F ASTM D 93<br>No data available<br>No data available                               |
| Flammability Limit in Air  | NO Gala avaliable   |
| Upper flammability limit:<br>Lower flammability limit:                   | No data available<br>No data available  |
| Vapor pressure   | No data available   |
| Vapor density  | No data available   |
| Specific Gravity<br>Water solubility                                     | 0.985 - 1.01 g/ml<br>Dispersible  |
| Solubility in other solvents   | No data available   |
| Partition coefficient  | No data available   |
| Autoignition temperature   | No data available   |
| Decomposition temperature  | No data available   |
| Kinematic viscosity  | No data available   |
| Dynamic viscosity  | No data available   |

# **Other Information**

**Explosive properties** 

**Oxidizing properties** 

| VOC Content (%) | No data available |
|-----------------|-------------------|
| Density         | 0.985 - 1.01kg/L  |

<u>Note:</u> These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

No data available

No data available



SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 10. STABILITY AND REACTIVITY FLUSH SUPERSEDES: 09/14/2015

#### Reactivity No data available

Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Exposure to air or moisture over prolonged periods.

#### Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

## Acute toxicity of the formulated product:

| Chemical Name | e Oral LD50   | Dermal LD50 | Inhalation LC50      |
|---------------|---------------|-------------|----------------------|
| Ammonia       | = 350 mg/kg ( | Rat )       | = 2000 ppm (Rat) 4 h |

| Chemical Name | Skin corrosion/irritation | Eye damage/irritation | Respiratory sensitization | Skin sensitization |
|---------------|---------------------------|-----------------------|---------------------------|--------------------|
| Ammonia       | Category 1                |                       |                           |                    |
| 7664-41-7     |                           |                       |                           |                    |

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

| Germ cell mutagenicity<br>Carcinogenicity | No information available.<br>No information available.   |
|---|--|
| Reproductive toxicity                     | No information available.  |
| STOT - single exposure                    | No information available.  |
| STOT - repeated exposure                  | No information available.  |
| Chronic toxicity                          | Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects. |
| Target Organ Effects<br>Aspiration hazard | Eye damage/irritation, Respiratory system, Skin.<br>No information available.  |

Information on likely routes of exposure

| Product Information | No data available  |
|---------------------|--------------------|
| Inhalation          | No data available. |
| Eye contact         | No data available. |
| Skin contact        | No data available. |
| Ingestion           | No data available. |



# SAFETY DATA SHEET SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

| Chemical Name | Algae/aquatic plants          | Fish                             | Crustacea                   |
|---------------|-------------------------------|----------------------------------|-----------------------------|
| Ammonia       | -                             | LC50 0.44 mg/L 96 h Cyprinus     | LC50 25.4 mg/L 48 h Daphnia |
| 7664-41-7     |                               | carpio LC50 0.26 - 4.6 mg/L 96 h | magna                       |
|               |                               | Lepomis macrochirus LC50 1.17    | -                           |
|               |                               | mg/L 96 h Lepomis macrochirus    |                             |
|               |                               | LC50 0.73 - 2.35 mg/L 96 h       |                             |
|               |                               | Pimephales promelas LC50 5.9     |                             |
|               | mg/L 96 h Pimephales promelas |                                  |                             |
|               | LC50 1.5 mg/L 96 h Poecilia   |                                  |                             |
|               |                               | reticulata LC50 1.19 mg/L 96 h   |                             |
|               |                               | Poecilia reticulata              |                             |

#### Persistence and degradability No information available.

#### **Bioaccumulation**

No information available.

Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Disposal of wastes** 

Do not reuse containers for any purpose. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal. For disposal, the container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse the product container for any other purpose.

Contaminated packaging

Do not reuse container.

# 14. TRANSPORT INFORMATION

DOT UN/ID no Proper shipping name U.S. Surface Freight Classification:

Not regulated Not regulated CLEANING, SCOURING OR WASHING COMPOUNDS, NOI, OTHER THAN LIQUID, (NMFC 48581; CLASS 55)



#### SAFETY DATA SHEET FLUSH SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 SUPERSEDES: 09/14/2015 **15. REGULATORY INFORMATION** NFPA Health hazards 3 Flammability 1 Instability 0 **Physical and Chemical** Properties -HMIS Health hazards 3 Flammability 1 Physical hazards 0 Personal protection X 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

# US Federal Regulations

## <u>SARA 313</u>

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                     | SARA 313 - Threshold Values % |
|-----------------------------------|-------------------------------|
| Ammonia - 7664-41-7               | 1.0                           |
| SARA 311/312 Hazard Categories    |                               |
| Acute health hazard               | Yes                           |
| Chronic Health Hazard             | Yes                           |
| Fire hazard                       | No                            |
| Sudden release of pressure hazard | No                            |
| Reactive Hazard                   | No                            |

#### 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<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|----------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Ammonia<br>7664-41-7 | 100 lb                         | -                      | -                         | Х                             |

#### 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) |
|----------------------|--------------------------|----------------|--------------------------|
| Ammonia              | 100 lb                   | 100 lb         | RQ 100 lb final RQ       |
| 7664-41-7            |                          |                | RQ 45.4 kg final RQ      |
| US State Degulations |                          |                |                          |

# US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. EPA Label Information



SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 11/30/2018 16. OTHER INFORMATION FLUSH SUPERSEDES: 09/14/2015

**Prepared By** Product Stewardship and Regulatory Affairs

**Reviewed By** Safety, Health and Environment

| Issue Date              | 11/30/2018 |
|-------------------------|------------|
| Revision Date           | 11/30/2018 |
| Revision Note           |            |
| 16 SDS sections updated |            |

FLUSH is a registered trademark of Loveland Products Canada, Inc.

**Disclaimer** 

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS CANADA, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

**End of Safety Data Sheet**