



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/20/2017

Reviewed on 06/20/2017

* 1 Identification

- **Product Identifier**
- **Trade name: LFD Glassware Detergent Powder**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description** Cleaning Compound
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
National Chemicals, Inc.
PO Box 506, Lewiston, MN 55952
Ph: 800-533- 0027 / 507-454- 5640
info@NationalChemicals.com
- **Emergency telephone number:** CHEMTREC 1-800- 424-9300

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Aquatic Acute 3 H402 Harmful to aquatic life.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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



GHS07

- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Disodium Metasilicate
Benzenesulfonic acid, C10-C13 alkyl derivs., sodium salts
- **Hazard statements:**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements:**
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.
 6.4 % of the mixture consists of component(s) of unknown toxicity.

· Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme**· NFPA ratings (scale 0 - 4)****· HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = 3
FIRE	0	Fire = 0
REACTIVITY	0	Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known*** 3 Composition/Information on Ingredients****· Chemical characterization: Mixtures****· Description:** Mixture of substances listed below with non-hazardous additions.**· Dangerous Components:**

CAS: 497-19-8	Sodium carbonate ⚠ Eye Irrit. 2A, H319	25-50%
CAS: 6834-92-0	Disodium Metasilicate ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	2-12%
CAS: 51580-86-0 RTECS: XZ 1900000	Troclosene Sodium, dihydrate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%
CAS: 68411-30-3	Benzenesulfonic acid, C10-C13 alkyl derivs., sodium salts ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≤ 2.5%
CAS: 7601-54-9	Trisodium Orthophosphate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

*** 4 First-Aid Measures****· Description of first aid measures:****· General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· After inhalation: Supply fresh air; consult doctor in case of complaints.**· After skin contact:** If skin irritation occurs, consult a doctor.

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- **After eye contact:**
Rinse opened eye for several minutes under running water.
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
If easy to do so, remove contact lenses if worn.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media:**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **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:		
497-19-8	Sodium carbonate	7.6 mg/m3
7758-29-4	Pentasodium triphosphate	0.61 mg/m3
7722-88-5	Tetrasodium Pyrophosphate	15 mg/m3
6834-92-0	Disodium Metasilicate	3.8 mg/m3
· PAC-2:		
497-19-8	Sodium carbonate	83 mg/m3
7758-29-4	Pentasodium triphosphate	6.8 mg/m3
7722-88-5	Tetrasodium Pyrophosphate	130 mg/m3
6834-92-0	Disodium Metasilicate	42 mg/m3
· PAC-3:		
497-19-8	Sodium carbonate	500 mg/m3
7758-29-4	Pentasodium triphosphate	620 mg/m3

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7722-88-5	Tetrasodium Pyrophosphate	790 mg/m3
6834-92-0	Disodium Metasilicate	250 mg/m3

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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 section 7.
- **Control parameters:**
- **Components with 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.

7722-88-5 Tetrasodium Pyrophosphate

REL	Long-term value: 5 mg/m ³
TLV	TLV withdrawn

7601-54-9 Trisodium Orthophosphate

WEEL	Short-term value: 5 mg/m ³
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- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves:**
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

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resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

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

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:**

Keep away from drains, surface and ground waters.

Avoid release into the environment.

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Powder

Color: White

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

· **Flash point:** None

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure:** Not determined.

· **Density:**

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

· **Solubility in / Miscibility with:**

Water: Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

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- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.0 %
 - Solids content:** 83.0 %
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:**
 - High temperatures.
 - Moisture.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
497-19-8 Sodium carbonate		
Oral	LD50	4,090 (Rat)
Inhalative	LC50/96 hours	300 (Fathead Minnow)
7758-29-4 Pentasodium triphosphate		
Oral	LD50	3,900 (Rat)
6834-92-0 Disodium Metasilicate		
Oral	LD50	1,280 (Rat)
51580-86-0 Troclosesene Sodium, dihydrate		
Oral	LD50	1,400 (Rat)
68411-30-3 Benzenesulfonic acid, C10-C13 alkyl derivs., sodium salts		
Oral	LD50	1,020 (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
 - The product shows the following dangers according to internally approved calculation methods for preparations:
 - Irritant
- **Carcinogenic categories:**

· IARC (International Agency for Research on Cancer):
None of the ingredients are listed.

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Trade name: LFD Glassware Detergent Powder**· NTP (National Toxicology Program):**

None of the ingredients are listed.

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

None of the ingredients are listed.

12 Ecological Information**· Toxicity:****· Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

497-19-8 Sodium carbonate

EC50 227 (Daphnia)

6834-92-0 Disodium Metasilicate

EC50 247 (Water flea)

68411-30-3 Benzenesulfonic acid, C10-C13 alkyl derivs., sodium salts

EC50 29 (Green algae)

2.9 (Water flea)

· 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.**· Ecotoxicological effects:****· Remark:** Harmful to fish**· Additional ecological information:****· General notes:**

Generally not hazardous for water.

Harmful to aquatic organisms

· 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:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packagings**· Recommendation:** Disposal must be made according to official regulations.**· Recommended cleansing agent:** Water, if necessary with cleansing agents.**14 Transport Information****· UN-Number:****· DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

· UN proper shipping name:**· DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

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- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

7601-54-9	Trisodium Orthophosphate
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· **Section 313 (Specific toxic chemical listings):**

7758-29-4	Pentasodium triphosphate
7601-54-9	Trisodium Orthophosphate

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

497-19-8	Sodium carbonate
7758-29-4	Pentasodium triphosphate
533-96-0	Sodium sesquicarbonate
7722-88-5	Tetrasodium Pyrophosphate
6834-92-0	Disodium Metasilicate
7601-54-9	Trisodium Orthophosphate

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.	
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.	
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.	
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· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.	
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· **New Jersey Right-to-Know List:**

7722-88-5	Tetrasodium Pyrophosphate
7601-54-9	Trisodium Orthophosphate

· **New Jersey Special Hazardous Substance List:**

None of the ingredients are listed.	
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· **Pennsylvania Right-to-Know List:**

7758-29-4	Pentasodium triphosphate
7722-88-5	Tetrasodium Pyrophosphate



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51580-86-0	Troclosene Sodium, dihydrate
7601-54-9	Trisodium Orthophosphate

· Pennsylvania Special Hazardous Substance List:

7758-29-4	Pentasodium triphosphate	E
7601-54-9	Trisodium Orthophosphate	E

· Carcinogenic categories:

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

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

None of the ingredients are listed.

· GHS label elements

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

· Hazard pictograms:



GHS07

· Signal word: Warning

· Hazard-determining components of labeling:

Disodium Metasilicate
Benzenesulfonic acid, C10-C13 alkyl derivs., sodium salts

· Hazard statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements:

P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

None of the ingredients are listed.

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

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16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 06/20/2017 / 3

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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 and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**

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