Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

*

1 Identification

· **Product Identifier**

· **Trade Name: S-34 NG**

· **Relevant identified uses of the substance or mixture and uses advised against:**
Nuclear Grade Aqueous Cleaner

· **Product Description:**
The S-34 NG water-based cleaner and degreaser removes grease, oils, wax, carbons, and inks from virtually any surface. Convenient spray and wipe blend requires no mixing or rinsing. Use this cleanser on equipment, fixtures, walls, floors, and any other surface not harmed by water. It is residue free.

Product Name	Part No.	Packaging
S-34 NG	214-55	55 Gal Drums
S-34 NG	214-5	5 Gal Pail
S-34 NG	214-4	4 x 1 Gal Pail
S-34 NG	214-1	12 x 1 Qt. Case

· **Application of the substance / the mixture:** Nuclear Grade Aquesous Cleaner

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**
Ecolink
2177A Flintstone Drive
Tucker, GA 30084
www.ecolink.com email: info@ecolink.com
800-886-8240 or 770-621-8240 (8–5 EST)

· **Emergency telephone number:**
Inside the U.S.: 800-535-5053 (INFOTRAC, 24 HOURS)
Outside the U.S.: 352-323-3500 (INFOTRAC, 24 HOURS)

2 Hazard(s) Identification

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


Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 3 H402 Harmful to aquatic life.

· **Label elements:**

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

· **Hazard pictograms:**

· **Signal word:** Danger

· **Hazard-determining components of labeling:**
D-glucopyranose, oligomeric, decyl octyl, glycoside
D-Glucopyranoside, C10-16 alkyl, oligomeric

· **Hazard statements:**
H318 Causes serious eye damage.

(Contd. on page 2)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

H402 Harmful to aquatic life.

· ***Precautionary statements:***

P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
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/doctor.
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.

3 % 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)***

Health = 1
Fire = 0
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***

Health = 1
Fire = 0
Physical Hazard = 0

· ***Hazard(s) not otherwise classified (HNOC):*** None known

3 Composition/Information on Ingredients

· ***Non-hazardous components:***

7732-18-5	Water, distilled water, deionized water	60-90%

· ***Chemical characterization: Mixtures***

· ***Description:*** Mixture of substances listed below with non-hazardous additions.

· ***Dangerous Components:***

CAS: 7601-54-9	Trisodium Orthophosphate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2-12%
CAS: 111-76-2 RTECS: KJ 8575000	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	≤2.5%
CAS: 68515-73-1	D-glucopyranose, oligomeric, decyl octyl, glycoside Eye Dam. 1, H318; Aquatic Acute 2, H401	≤2.5%
CAS: 110615-47-9	D-Glucopyranoside, C10-16 alkyl, oligomeric Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Acute 2, H401	≤2.5%
CAS: 7320-34-5 RTECS: JL6735000	Tetrapotassium Pyrophosphate 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.

(Contd. on page 3)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

4 First-Aid Measures

· ***Description of first aid measures***
· ***After inhalation:*** In case of unconsciousness place patient stably in the side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.
· ***After eye contact:***
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
If easy to do so, remove contact lenses if worn.
· ***After swallowing:***
Rinse out mouth and then drink plenty of water.
Do not induce vomitting.
If vomiting does occur, repeat fluid administration
If symptoms develop and/or persist, seek medical attention.
· ***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.
· ***For safety reasons unsuitable extinguishing agents:*** No further relevant information.
· ***Special hazards arising from the substance or mixture:***
If incinerated product will release the following toxic fumes: Carbon Oxides, Nitrogen Oxides (NOx), Phosphorous Oxides, Potassium Oxides and Sodium Oxides.
· ***Advice for firefighters*** Use water spray to cool unopened containers.
· ***Special protective equipment for firefighters:***
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:***
Ensure adequate ventilation.
Keep people at a distance and stay upwind.
Avoid contact with skin, eyes and clothing.
Keep away from ignition sources
· ***Environmental precautions:***
Inform respective authorities in case of seepage into water course or sewage system.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
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.

(Contd. on page 4)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
111-76-2	2-butoxyethanol	60 ppm
7320-34-5	Tetrapotassium Pyrophosphate	61 mg/m³

· **PAC-2:**		
111-76-2	2-butoxyethanol	120 ppm
7320-34-5	Tetrapotassium Pyrophosphate	680 mg/m³

· **PAC-3:**		
111-76-2	2-butoxyethanol	700 ppm
7320-34-5	Tetrapotassium Pyrophosphate	1,200 mg/m³

7 Handling and Storage

· **Handling**
· **Precautions for safe handling:**
Avoid contact with skin, eyes and clothing
Keep receptacles tightly sealed.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
Store away from strong acids, strong oxidizing agents and strong reducing agents.
· **Storage**
· **Requirements to be met by storerooms and receptacles:**
Store in a well ventilated place.
Store in a cool, dry place away from sparks and flame.
Do not store in direct sunlight.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **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:**
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.
· **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.

7601-54-9 Trisodium Orthophosphate	
WEEL	Short-term value: 5 mg/m³
111-76-2 2-butoxyethanol	
PEL	Long-term value: 240 mg/m³, 50 ppm Skin

(Contd. on page 5)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

REL	Long-term value: 24 mg/m³, 5 ppm Skin
TLV	Long-term value: 97 mg/m³, 20 ppm BEI

· ***Ingredients with biological limit values:***

111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine urine end of shift Butoxyacetic acid with hydrolysis

· ***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 skin.
Avoid contact with the eyes and skin.
· ***Breathing equipment:***
Not necessary if room is well-ventilated.
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

· ***Material of gloves:*** Not applicable.
· ***Penetration time of glove material:*** Not applicable.
· ***Eye protection:***

Tightly sealed goggles

· ***Body protection:*** Not required.
· ***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:	Liquid
Color:	Colorless
· ***Odor:***	Mild, petroleum-like

(Contd. on page 6)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

· **Odor threshold:**	Not determined.
· **pH-value @ 20 °C (68 °F):**	11.5
· **Change in condition**	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	≥100 °C (≥212 °F)
· **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 @ 20 °C (68 °F):**	≤23 hPa (≤17.3 mm Hg)
· **Density @ 20 °C (68 °F):**	1.03 g/cm³ (8.5954 lbs/gal)
· **Relative density:**	Not determined.
· **Vapor density:**	Not determined.
· **Evaporation rate @ 20 °C (68 °F):**	1.0 (water=1)
· **Solubility in / Miscibility with:**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	2.5 %
Water:	89.7 %
VOC content:	2.50 %
Solids content:	6.4 %
· **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:**
Elevated temperatures; decomposes with heat. Sources of ignition such as sparks, hot spots, welding, flames.
· **Incompatible materials:** Strong acids, strong oxidizing agents and strong reducing agents.
· **Hazardous decomposition products:**
Carbon Oxides, Nitrogen Oxides (NOx), Phosphorous Oxides, Potassium Oxides and Sodium Oxides.

(Contd. on page 7)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

11 Toxicological Information

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

· ***LD/LC50 values that are relevant for classification:***

111-76-2 2-butoxyethanol		
Oral	LD50	470 mg/kg (Rat)
Dermal	LD50	220 mg/kg (rab)
Inhalative	LC50/4 h	2,174.91 mg/l (Rat)
68515-73-1 D-glucopyranose, oligomeric, decyl octyl, glycoside		
Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
110615-47-9 D-Glucopyranoside, C10-16 alkyl, oligomeric		
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
7320-34-5 Tetrapotassium Pyrophosphate		
Oral	LD50	>2,000 mg/kg (Mouse)
Dermal	LD50	>4,640 mg/kg (Rabbit)

· ***Primary irritant effect:***
· ***On the skin:***
Strong caustic effect on skin and mucous membranes.
Irritant to skin and mucous membranes.
· ***On the eye:***
Strong irritant with the danger of severe eye injury.
Corrosive effect.
Causes serious eye irritation.
· ***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):***
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

111-76-2	2-butoxyethanol	3

· ***NTP (National Toxicology Program):***
None of the ingredients are listed.

· ***OSHA-Ca (Occupational Safety & Health Administration):***
None of the ingredients are listed.

(Contd. on page 8)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

12 Ecological Information

· **Toxicity:**
· **Aquatic toxicity:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

111-76-2 2-butoxyethanol	
EC50	1,815 mg/l (Water flea)
68515-73-1 D-glucopyranose, oligomeric, decyl octyl, glycoside	
EC50	>100 mg/l (Daphnia) (OECD 202) Duration 48 hour
110615-47-9 D-Glucopyranoside, C10-16 alkyl, oligomeric	
EC50	10-100 mg/l (Daphnia)

· **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.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Generally not hazardous for water.
Harmful to aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· **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.
Straight from the drum, S-34 NG is not considered a hazardous waste product. Once it is contaminated with whatever you are cleaning, the resulting mixture may fall under a hazardous classification, depending on whether or not the material you are cleaning is hazardous. If you aren't sure how to dispose of this material, give us a call and we will help you make the right decisions.

· **Uncleaned packaging**
· **Recommendation:** Dispose of as unused product.

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

(Contd. on page 9)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

· **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

· **Section 313 (Specific toxic chemical listings):**

7601-54-9	Trisodium Orthophosphate
111-76-2	2-butoxyethanol

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

7601-54-9	Trisodium Orthophosphate
111-76-2	2-butoxyethanol
68515-73-1	D-glucopyranose, oligomeric, decyl octyl, glycoside
110615-47-9	D-Glucopyranoside, C10-16 alkyl, oligomeric
7320-34-5	Tetrapotassium Pyrophosphate
7732-18-5	Water, distilled water, deionized water

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

7601-54-9	Trisodium Orthophosphate
111-76-2	2-butoxyethanol

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

111-76-2	2-butoxyethanol	CA, F2

· **Pennsylvania Right-to-Know List:**

7601-54-9	Trisodium Orthophosphate
111-76-2	2-butoxyethanol

(Contd. on page 10)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 Reviewed on 04/03/2019

Trade Name: S-34 NG

· **Pennsylvania Special Hazardous Substance List:**		
7601-54-9	Trisodium Orthophosphate	E

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**		
111-76-2	2-butoxyethanol	NL

· **TLV (Threshold Limit Value established by ACGIH):**		
111-76-2	2-butoxyethanol	A3

· **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:**

· **Signal word:** Danger

· **Hazard-determining components of labeling:**
D-glucopyranose, oligomeric, decyl octyl, glycoside
D-Glucopyranoside, C10-16 alkyl, oligomeric
· **Hazard statements:**
H318 Causes serious eye damage.
H402 Harmful to aquatic life.
· **Precautionary statements:**

P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
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/doctor.
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.

16 Other Information

Ecolink, Inc. believes the information contained herein is accurate. However, Ecolink makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained by the use thereof. Ecolink, Inc. assumes no responsibility for injury from the use of the product described herein.

· **Date of last revision/ revision number:** 04/03/2019 / -
· **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

(Contd. on page 11)

Safety Data Sheet (SDS)

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

Issue date 04/03/2019 *Reviewed on 04/03/2019*

Trade Name: S-34 NG

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)
VOC: Volatile Organic Compounds (USA, EU)
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
BEI: Biological Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
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 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

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