

Safety Data Sheet (SDS)

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

Issue date 08/25/2015

Reviewed on 08/25/2015

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 Aqueous Cleaner

- **Details of the supplier of the safety data sheet:**

- **Manufacturer/Supplier:**

Ecolink

2177A Flintstone Drive

Tucker, GA 30084

www.ecolink.com

800-886-8240 or 770-621-8240 (8-5 EST)

email: info@ecolink.com

- **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:**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements:**

- **GHS label elements**

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

- **Hazard pictograms:**



GHS05

- **Signal word:** Danger

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

D-glucopyranose, oligomeric, decyl octyl, glycoside

D-Glucopyranoside, C10-16 alkyl, oligomeric

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- **Hazard statements:**

Causes serious eye damage.

- **Precautionary statements:**

Wear eye protection / face protection.

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

Immediately call a poison center/doctor.

- **Unknown acute toxicity:**

3 percent of the mixture consists of ingredient(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)**



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

3 Composition/information on ingredients

7732-18-5	Water, distilled water, deionized water	90-99%
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- **Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous Components:**

CAS: 111-76-2 RTECS: KJ 8575000	Ethylene Glycol Monobutyl Ether ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Flam. Liq. 4, H227	≤ 2.5%
CAS: 7601-54-9	Trisodium Orthophosphate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2-12%
CAS: 68515-73-1	D-glucopyranose, oligomeric, decyl octyl, glycoside ⚠ Eye Dam. 1, H318; Aquatic Acute 3, H402	≤ 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%

4 First-aid measures

- **Description of first aid measures:**

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

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

- **After skin contact:**

Generally the product does not irritate the skin.

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Wash with soap and water.

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.

• **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting.

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:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **Special hazards arising from the substance or mixture:**

If incinerated product will release the following toxic fumes: Carbon Oxides, Nitrogen Oxides (NO_x), Phosphorous Oxides, Potassium Oxides and Sodium Oxides.

• **Advice for firefighters:** Use water spray to cool unopened containers.

• **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:**

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:** 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.

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7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 Avoid contact with skin, eyes and clothing
 Prevent formation of aerosols.
 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:**

7601-54-9 Trisodium Orthophosphate

WEEL Short-term value: 5 mg/m³

111-76-2 Ethylene Glycol Monobutyl Ether

PEL Long-term value: 240 mg/m³, 50 ppm Skin

REL Long-term value: 24 mg/m³, 5 ppm Skin

REL Long-term value: 97 mg/m³, 20 ppm BEI

TLV

· **Ingredients with biological limit values:**

111-76-2 Ethylene Glycol Monobutyl Ether

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.

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- **Exposure controls:**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

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

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.

Select glove material based on penetration times, rates of diffusion and degradation.

- **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 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

- **Body protection:** Not required.

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form:

Liquid

Color:

Green

- **Odor:**

Mild

- **Odor threshold:**

Not determined.

- **pH-value @ 20 °C (68 °F):**

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· 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:	
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): 17 mm Hg	
· Density @ 20 °C (68 °F): 1.03 g/cm ³ (8.59 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:	Soluble.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	25 g/l
· 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.

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- **Hazardous decomposition products:**
Carbon Oxides, Nitrogen Oxides (NOx), Phosphorous Oxides, Potassium Oxides and Sodium Oxides.

11 Toxicological information

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

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

111-76-2 Ethylene Glycol Monobutyl Ether

Oral	LD50	470 mg/kg (rat)
Dermal	LD50	220 mg/kg (rabbit)
Inhalative	LC50/4 h	2174.91 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:**
Strong irritant with the danger of severe eye injury.
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	Ethylene Glycol Monobutyl Ether	3
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- **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:**
- | | |
|--|------------------------|
| 111-76-2 Ethylene Glycol Monobutyl Ether | |
| EC50 | 1815 mg/l (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.

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· **Additional ecological information:**

· **General notes:**

Generally not hazardous for water.

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.

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 packagings:**

· **Recommendation:**

Dispose of as unused product.

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, IMDG, IATA** Non-Regulated Material

· **UN proper shipping name:**

· **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material

· **Transport hazard class(es):**

· **DOT, ADR, ADN, IMDG, IATA**
 · **Class:** Non-Regulated Material

· **Packing group:**

· **DOT, ADR, 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.

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· **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):**

7601-54-9	Trisodium Orthophosphate
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111-76-2	Ethylene Glycol Monobutyl Ether
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· **TSCA (Toxic Substances Control Act):**

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

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

111-76-2	Ethylene Glycol Monobutyl Ether	
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NL

· **TLV (Threshold Limit Value established by ACGIH):**

111-76-2	Ethylene Glycol Monobutyl Ether	
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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).

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• **Hazard pictograms:**



GHS05

• **Signal word:** *Danger*

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

*D-glucopyranose, oligomeric, decyl octyl, glycoside
D-Glucopyranoside, C10-16 alkyl, oligomeric*

• **Hazard statements:**

Causes serious eye damage.

• **Precautionary statements:**

Wear eye protection / face protection.

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

Immediately call a poison center/doctor.

• **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

• **State Right to Know:**

CAS: 7732-18-5	Water, distilled water, deionized water	90-99%
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	Ethylene Glycol Monobutyl Ether ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Flam. Liq. 4, H227	≤ 2.5%
CAS: 68515-73-1	D-glucopyranose, oligomeric, decyl octyl, glycoside ⚠ Eye Dam. 1, H318; Aquatic Acute 3, H402	≤ 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%
<i>All ingredients are listed.</i>		

• **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 preparation / last revision:** 08/25/2015

• **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

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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)
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
Flam. Liq. 4: Flammable liquids, Hazard Category 4
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 2: Hazardous to the aquatic environment - AcuteHazard, Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - AcuteHazard, Category 3

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