Safety Data Sheet
Pulse Ultra

SDS Revision Date: **05/06/2015**

1. Identification

1.1. Product identifier

Product Identity	Pulse Ultra
Alternate Names	Pulse Ultra

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Laundry Alkali Builder
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	Gurtler Industries, Inc. 15475 South LaSalle St. South Holland, IL 60473 US
Emergency	
24 hour Emergency Telephone No.	(708) 331-2550
Customer Service: Gurtler Industries, Inc.	INFOTRAC - (800) 535-5053

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Irrit. 1A;H314 Causes severe skin burns and eye damage

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H314 Causes Severe skin burns and eye damage.

[Prevention]:

P260 Do not breathe mist/vapors/spray.
P262 Do not get in eyes, on skin or on clothing.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse continuously 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.

P321 Specific treatment (see information on this label).

P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P362 Take off contaminated clothing and wash before reuse.

[Storage]:

Please refer to Section 7 for Storage information

[Disposal]:

Please refer to Section 13 for Disposal information.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Sodium Hydroxide **CAS Number: 1310-73-2**	**25-35**	**Skin Irrit. 1A; H314**	**[1]**
Polyacrylic acid, sodium salt **CAS Number: 9003-01-04**	**1.0-5.0**	**No Data available**	**[1]**
Water **CAS Number: 7732-18-5**	**65-75**	**No Data available; no phrases apply**	**[1]**

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Eyes Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. If eye irritation persists: Get medical advice/attention.

Skin Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Overview Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

Chronic effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.
See section 2 for further details.

Eyes Causes serious eye damage.

Skin Causes skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Water spray or fog, Carbon dioxide, dry chemical, alcohol foam

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: oxides of sodium, oxides of phosphorous, oxides of carbon

5.3. Advice for fire-fighters

Firefighters should wear full protective clothing including self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Personal precautions: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective space clothing. Keep people away from and upwind of spill/leak.

Environmental precautions: Do not discharge into lakes, streams, ponds or public waters.
Methods for containment: Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or

confined areas.

Methods for cleaning up: Before attempting clean up, refer to hazard data given above. Carefully shovel or sweep up spilled material and place in suitable container.

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes.
Avoid contact with skin and clothing.
Ensure adequate ventilation.
Avoid breathing vapors or mists of this product.
Use good industrial hygiene practices in handling this material.
Wash thoroughly after handling.
When using do not eat or drink.
Keep container tightly closed.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Acids, oxidizers, reducing agents

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
1310-73-2	Sodium Hydroxide	OSHA	2 mg/m3 TWA
		ACGIH	2 mg/m3 ceiling
		NIOSH	2 mg/m3 ceiling
9003-01-04	Polyacrylic acid, sodium salt	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
7732-18-5	Water	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Tightly fitting safety goggles.
Skin	Chemical resistant, impervious gloves should be worn at all time. Wear suitable protective clothing Protective shoes or boots.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Clear, iridescent green liquid
Odor	Characteristic
Odor threshold	Not Measured
pH 1% soln.	12.3
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	Not Measured
Flash Point	Not Measured
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** Not Measured **Upper Explosive Limit:** Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	1.350-1.370
Solubility in Water	Miscible
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	<50 cps

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur. This product is hygroscopic.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

This product may react with strong acids, strong oxidizing agents and reducing agents.

10.4. Conditions to avoid

Do not mix with alkalis.

10.5. Incompatible materials

Acids, oxidizers, reducing agents, aluminum, powdered aluminum, zinc and tin

10.6. Hazardous decomposition products

Hydrogen, sodium oxides,

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Sodium Hydroxide **CAS Number: 1310-73-2**	No data available	500mg 24 hours (Rabbit) Irrit.	No data available	No data available	No data available
Polyacrylic acid, sodium salt **CAS Number: 9003-01-04**	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1	Causes skin burns and irritation.
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Sodium Hydroxide **CAS Number: 1310-73-2**	196 (P. reticulate)	33-100 (Crangon, LC50)	Not Available
Polyacrylic acid, sodium salt **CAS Number: 9003-01-04**	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1824	UN1824	UN1824
14.2. UN proper shipping name	UN1824, Sodium Hydroxide, solution, 8, II	Sodium Hydroxide, solution, 8, II	Sodium Hydroxide, solution, 8, II
14.3. Transport hazard class(es)	**DOT Hazard Class:** 8	**IMDG:** 8 **Sub Class:** Not Applicable	**Air Class:** 8
14.4. Packing group	II	II	II
14.5. Environmental hazards			

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	Class E - Corrosive
US EPA Tier II Hazards	**Fire:** No **Sudden Release of Pressure:** No **Reactive:** No **Immediate (Acute):** Yes **Delayed (Chronic):** No

EPCRA 304 RQ: Yes, 1000lb

EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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