

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/09/2017 Revision date: 03/22/2017 Supersedes: 03/21/2017 Version: 3.1

| SECTION 1: Identification   |   |
|---|---|
| 1.1. Identification   |   |
| Product form  | : Mixture   |
| Trade name  | : Patriot Chemical® PowerHouse  |
| Product code  | : 2706  |
| 1.2. Recommended use and restriction  |   |
| Recommended use   | : Laundry, Detergent  |
|   |   |
| 1.3. Supplier   |   |
| Synthetic Labs<br>24 Victory Lane<br>Dracut, MA 01826 - United States<br>T 800.255.4050 - F 978.957.5122<br>www.syntecpro.com |   |
| 1.4. Emergency telephone number   |   |
| Emergency number  | : Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053   |
|   | . motrac 24 nour medicar Emergency Number. 1-800-333-3033   |
| SECTION 2: Hazard(s) identification   | n   |
| 2.1. Classification of the substance or   | mixture   |
| GHS US classification   |   |
| Skin corrosion/irritation Category 1A<br>Serious eye damage/eye irritation Category 1   | Causes severe skin burns and eye damage<br>Causes serious eye damage  |
| 2.2. GHS Label elements, including pro  | ecautionary statements  |
| GHS US labeling   |   |
| Hazard pictograms (GHS US)  |   |
| Signal word (GHS US)  | : Danger  |
| Hazard statements (GHS US)  | : Causes severe skin burns and eye damage<br>Causes serious eye damage  |
| Precautionary statements (GHS US)   | <ul> <li>Do not breathe dust/fume/gas/mist/vapours/spray.<br/>Wash hands, forearms and face thoroughly after handling.<br/>Wear protective gloves/protective clothing/eye protection/face protection.<br/>If swallowed: rinse mouth. Do NOT induce vomiting.<br/>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with<br/>water/shower.</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing.<br/>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present<br/>and easy to do. Continue rinsing.<br/>Immediately call a poison center or doctor.</li> <li>Specific treatment (see supplemental first aid instruction on this label).</li> <li>Wash contaminated clothing before reuse.</li> <li>Store locked up.</li> <li>Dispose of contents/container to hazardous or special waste collection point, in accordance<br/>with local, regional, national and/or international regulation.</li> </ul> |
| 2.3. Other hazards which do not result  | t in classification   |

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

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### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

# Not applicable 3.2. Mixtures

| Name                     | Product identifier   | %       | GHS US classification  |
|--------------------------|----------------------|---------|--|
| Sodium hydroxide         | (CAS-No.) 1310-73-2  | 30 – 40 | Acute Tox. 1 (Oral), H300<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318                        |
| Nonylphenol, ethoxylated | (CAS-No.) 68412-54-4 | 5 – 10  | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                     |
| Potassium Hydroxide      | (CAS-No.) 1310-58-3  | 1 – 5   | Met. Corr. 1, H290<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318  |
| Sodium Tripolyphosphate  | (CAS-No.) 7758-29-4  | 1 – 5   | Acute Tox. 2<br>(Inhalation:dust,mist), H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319 |

Full text of hazard classes and H-statements : see section 16

| SECTION 4: First-aid measures                    |   |
|--|---|
| 4.1. Description of first aid measures           |   |
| First-aid measures general                       | : Call a physician immediately.   |
| First-aid measures after inhalation              | : Remove person to fresh air and keep comfortable for breathing.  |
| First-aid measures after skin contact            | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.  |
| First-aid measures after eye contact             | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.        |
| First-aid measures after ingestion               | : Rinse mouth. Do not induce vomiting. Call a physician immediately.  |
| 4.2. Most important symptoms and eff             | fects (acute and delayed)   |
| Symptoms/effects after skin contact              | : Burns.  |
| Symptoms/effects after eye contact               | : Serious damage to eyes.   |
| Symptoms/effects after ingestion                 | : Burns.  |
| 4.3. Immediate medical attention and             | special treatment, if necessary   |
| Treat symptomatically.                           |   |
| SECTION 5: Fire-fighting measures                | S   |
| 5.1. Suitable (and unsuitable) extingui          | shing media   |
| Suitable extinguishing media                     | : Water spray. Dry powder. Foam. Carbon dioxide.  |
| 5.2. Specific hazards arising from the           | chemical  |
| Hazardous decomposition products in case of fire | of : Toxic fumes may be released.   |
| 5.3. Special protective equipment and            | precautions for fire-fighters   |
| Protection during firefighting                   | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                    |
| SECTION 6: Accidental release me                 | asures  |
| 5.1. Personal precautions, protective            | equipment and emergency procedures  |
| 6.1.1. For non-emergency personnel               |   |
| Emergency procedures                             | : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.   |
| 6.1.2. For emergency responders                  |   |
| Protective equipment                             | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions                   |   |
| Avoid release to the environment.                |   |
| 07/16/2020                                       | EN (English LIS) 2/0  |

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| Do not breathe   |
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Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

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#### Personal protective equipment symbol(s):



| SECTION 9: Physical and chemical properties     |                     |  |
|---|---------------------|--|
| 9.1. Information on basic physical and che      |                     |  |
| Physical state                                  | : Liquid            |  |
| Appearance                                      | : Liquid.           |  |
| Color   | : red               |  |
| Odor  | : characteristic    |  |
| Odor threshold                                  | : No data available |  |
| рН  | : 13.5 – 14         |  |
| pH solution                                     | : ≥0                |  |
| Melting point                                   | : Not applicable    |  |
| Freezing point                                  | : No data available |  |
| Boiling point                                   | : No data available |  |
| Flash point                                     | : No data available |  |
| Relative evaporation rate (butyl acetate=1)     | : No data available |  |
| Flammability (solid, gas)                       | : Not applicable.   |  |
| Vapor pressure                                  | : No data available |  |
| Relative vapor density at 20 °C                 | : No data available |  |
| Relative density                                | : No data available |  |
| Specific gravity / density                      | : 1.08 g/m³         |  |
| Solubility                                      | : No data available |  |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |  |
| Auto-ignition temperature                       | : No data available |  |
| Decomposition temperature                       | : No data available |  |
| Viscosity, kinematic                            | : No data available |  |
| Viscosity, dynamic                              | : No data available |  |
| Explosion limits                                | : No data available |  |
| Explosive properties                            | : No data available |  |
| Oxidizing properties                            | : No data available |  |
| 9.2. Other information                          |                     |  |

No additional information available

### SECTION 10: Stability and reactivity 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

| 10.3.   | Possibility of hazardous reactions                    |  |
|---------|---|--|
| No dang | erous reactions known under normal conditions of use. |  |

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

**10.6.** Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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| SECTION 11: Toxicological information              |  |  |  |
|--|--|--|--|
| 11.1. Information on toxicological effects         |  |  |  |
| Acute toxicity (oral)                              | : Not classified   |  |  |
| Acute toxicity (dermal)                            | : Not classified   |  |  |
| Acute toxicity (inhalation)                        | : Not classified   |  |  |
| Deteccium Hudrovide (1210 E9.2)                    |  |  |  |
| Potassium Hydroxide (1310-58-3)<br>LD50 oral rat   | 333 mg/kg (Equivalent or similar to OECD 425, Rat, Male, Experimental value, Oral)   |  |  |
|  |  |  |  |
| Nonylphenol, ethoxylated (68412-54-4)              |  |  |  |
| LD50 oral rat                                      | 1800 mg/kg (Rat)   |  |  |
| LD50 dermal rabbit                                 | 4400 mg/kg   |  |  |
| Sodium Tripolyphosphate (7758-29-4)                |  |  |  |
| LD50 oral rat                                      | > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))                |  |  |
| LD50 dermal rabbit                                 | > 4640 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal, 14 day(s))   |  |  |
| LC50 inhalation rat (mg/l)                         | > 0.39 mg/l (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s)) |  |  |
| Skin corrosion/irritation                          | : Causes severe skin burns.  |  |  |
|  | pH: 13.5 – 14  |  |  |
| Serious eye damage/irritation                      | : Causes serious eye damage.   |  |  |
|  | pH: 13.5 – 14  |  |  |
| Respiratory or skin sensitization                  | : Not classified   |  |  |
| Germ cell mutagenicity                             | : Not classified   |  |  |
| Carcinogenicity                                    | : Not classified   |  |  |
|  |  |  |  |
| Reproductive toxicity                              | : Not classified   |  |  |
|  |  |  |  |
| Specific target organ toxicity – single exposure   | : Not classified   |  |  |
|  |  |  |  |
| Specific target organ toxicity – repeated exposure | : Not classified   |  |  |
| Aspiration hazard                                  | : Not classified   |  |  |
| Viscosity, kinematic                               | : No data available  |  |  |
|  |  |  |  |
| - ,  | : Burns.   |  |  |
| Symptoms/effects after eye contact                 | : Serious damage to eyes.  |  |  |
| Symptoms/effects after ingestion                   | : Burns.   |  |  |
|  |  |  |  |

### **SECTION 12: Ecological information**

|--|

: Before neutralisation, the product may represent a danger to aquatic organisms.

| Potassium Hydroxide (1310-58-3)     |  |  |
|-------------------------------------|--|--|
| LC50 fish 1                         | 80 mg/l (96 h, Gambusia affinis, Static system, Fresh water, Experimental value)                           |  |
| Sodium hydroxide (1310-73-2)        |  |  |
| LC50 fish 1                         | 45.4 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Solution >=50%)          |  |
| EC50 Daphnia 1                      | 40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Nominal concentration)                              |  |
| Sodium Tripolyphosphate (7758-29-4) |  |  |
| LC50 fish 1                         | > 1850 mg/l (AFNOR, 24 h, Danio rerio, Fresh water, Experimental value)                                    |  |
| EC50 Daphnia 1                      | > 100 mg/l (EPA OTS 797.1930, 48 h, Daphnia magna, Static system, Fresh water,<br>Experimental value, GLP) |  |
| ErC50 (algae)                       | 160 mg/l (ISO 8692, 4 day(s), Desmodesmus subspicatus, Fresh water, Experimental value)                    |  |

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| 2.2. Persistence and degradability    |                                     |  |
|---------------------------------------|-------------------------------------|--|
| Potassium Hydroxide (1310-58-3)       |                                     |  |
| Persistence and degradability         | Biodegradability: not applicable.   |  |
| Chemical oxygen demand (COD)          | Not applicable                      |  |
| ThOD                                  | Not applicable                      |  |
| BOD (% of ThOD)                       | Not applicable                      |  |
| Sodium hydroxide (1310-73-2)          |                                     |  |
| Persistence and degradability         | Biodegradability: not applicable.   |  |
| Chemical oxygen demand (COD)          | Not applicable (inorganic)          |  |
| ThOD                                  | Not applicable (inorganic)          |  |
| Nonylphenol, ethoxylated (68412-54-4) |                                     |  |
| Persistence and degradability         | Not readily biodegradable in water. |  |
| Sodium Tripolyphosphate (7758-29-4)   |                                     |  |
| Persistence and degradability         | Biodegradability: not applicable.   |  |
| Chemical oxygen demand (COD)          | Not applicable                      |  |
| ThOD                                  | Not applicable                      |  |
| BOD (% of ThOD)                       | Not applicable                      |  |

#### 12.3. Bioaccumulative potential

| Potassium Hydroxide (1310-58-3)     |                                  |  |
|-------------------------------------|----------------------------------|--|
| Bioaccumulative potential           | Bioaccumulation: not applicable. |  |
| Sodium hydroxide (1310-73-2)        |                                  |  |
| Bioaccumulative potential           | Not bioaccumulative.             |  |
| Sodium Tripolyphosphate (7758-29-4) |                                  |  |
| Bioaccumulative potential           | Not bioaccumulative.             |  |
|                                     |                                  |  |

#### 12.4. Mobility in soil

| Sodium hydroxide (1310-73-2)                    |   |  |
|---|---|--|
| Ecology - soil                                  | No (test)data on mobility of the substance available. |  |
| Sodium Tripolyphosphate (7758-29-4)             |   |  |
| Partition coefficient n-octanol/water (Log Koc) | 2.15 (log Koc, Experimental value)                    |  |
| Ecology - soil                                  | Low potential for adsorption in soil.                 |  |

#### 12.5. Other adverse effects

No additional information available

| <b>SECTION 13: Disposal consideration</b> | S   |
|---|---|
| 13.1. Disposal methods                    |   |
| Waste treatment methods                   | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| SECTION 14: Transport information         |   |
| Department of Transportation (DOT)        |   |
| In accordance with DOT                    |   |
| Transport document description            | : UN1760 Corrosive liquids, n.o.s. (Sodium Hydroxide, Potassium Hydroxide), 8, II             |
| UN-No.(DOT)                               | : UN1760  |
| Proper Shipping Name (DOT)                | : Corrosive liquids, n.o.s.   |
|   | Sodium Hydroxide,Potassium Hydroxide  |
| Class (DOT)                               | : 8 - Class 8 - Corrosive material 49 CFR 173.136   |
| Packing group (DOT)                       | : II - Medium Danger  |
|   |   |

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| Hazard labels (DOT)  | : 8 - Corrosive  |
|--|--|
|  | CORROSIVE  |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 202  |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 242  |
| DOT Symbols  | : G - Identifies PSN requiring a technical name  |
| DOT Special Provisions (49 CFR 172.102)                          | <ul> <li>B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.</li> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.</li> <li>T11 - 6 178.274(d)(2) Normal</li></ul>   |
|  | <ul> <li>TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.</li> <li>TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.</li> </ul> |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 154  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 1L   |
| DOT Quantity Limitations Cargo aircraft only (49<br>CFR 175.75)  | 9 : 30 L   |
| DOT Vessel Stowage Location                                      | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.  |
| DOT Vessel Stowage Other   | : 40 - Stow "clear of living quarters"   |
| Emergency Response Guide (ERG) Number                            | : 154  |
| Other information  | : No supplementary information available.  |
| Transportation of Dangerous Goods                                |  |
| Not applicable   |  |
| Transport by sea   |  |
| Transport document description (IMDG)                            | : UN 1760 CORROSIVE LIQUID, N.O.S., 8, II  |
| UN-No. (IMDG)  | : 1760   |
| Proper Shipping Name (IMDG)                                      | : CORROSIVE LIQUID, N.O.S.   |
| Class (IMDG)   | : 8 - Corrosive substances   |
| Packing group (IMDG)   | : II - substances presenting medium danger   |
| Air transport  |  |
| Transport document description (IATA)                            | : UN 1760 Corrosive liquid, n.o.s., 8, II  |
|  | : 1760   |
| UN-No. (IATA)  |  |
| ,  | : Corrosive liquid, n.o.s.   |
| UN-No. (IATA)  |  |

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| SECTION 15: Bogulatory information   |   |  |
|--|---|--|
| SECTION 15: Regulatory information 15.1. US Federal regulations  |   |  |
| Potassium Hydroxide (1310-58-3)  |   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Not subject to reporting requirements of the United States SARA Section 313 |   |  |
| CERCLA RQ  | 1000 lb   |  |
| Sodium hydroxide (1310-73-2)   |   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Not subject to reporting requirements of the United States SARA Section 313 |   |  |
| CERCLA RQ  | 1000 lb   |  |
| Nonylphenol, ethoxylated (68412-54-4)  |   |  |
| Listed on the United States TSCA (Toxic Substan  | nces Control Act) inventory   |  |
| EPA TSCA Regulatory Flag   | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |  |
| Sodium Tripolyphosphate (7758-29-4)  |   |  |
| Listed on the United States TSCA (Toxic Substar  | nces Control Act) inventory   |  |
| 15.2. International regulations  |   |  |
| CANADA   |   |  |
| Potassium Hydroxide (1310-58-3)  |   |  |
| Listed on the Canadian DSL (Domestic Substanc  | es List)  |  |
| Sodium hydroxide (1310-73-2)   |   |  |
| Listed on the Canadian DSL (Domestic Substances List)  |   |  |
| Nonylphenol, ethoxylated (68412-54-4)  |   |  |
| Listed on the Canadian DSL (Domestic Substances List)  |   |  |
| Sodium Tripolyphosphate (7758-29-4)  |   |  |
| Listed on the Canadian DSL (Domestic Substances List)  |   |  |
| EU-Regulations<br>No additional information available<br>National regulations<br>No additional information available                                     |   |  |
| 15.3. US State regulations   |   |  |

| Component                          | State or local regulations   |
|------------------------------------|--|
| Potassium Hydroxide(1310-58-3)     | U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |
| Sodium Tripolyphosphate(7758-29-4) | U.S Pennsylvania - RTK (Right to Know) List  |
| Sodium hydroxide(1310-73-2)        | U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |

### **SECTION 16: Other information**

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| Revision date | : 03/22/2017  |
|---------------|---|
| Hazard Rating |   |
| Health        | : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given   |
| Flammability  | : 0 Minimal Hazard - Materials that will not burn   |
| Physical      | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |

SDS US (GHS HazCom 2012)

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.