

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 24 Victory Lane Dracut, MA 01826 - United States T 800.255.4050 - F 978.957.5122 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 Serious eye damage/eye irritation Category 1	Causes severe skin burns and eye damage 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 Causes serious eye damage
Precautionary statements (GHS US)	 Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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 or doctor. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards which do not result	t in classification

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 Skin Corr. 1, H314 Eye Dam. 1, H318
Nonylphenol, ethoxylated	(CAS-No.) 68412-54-4	5 – 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Potassium Hydroxide	(CAS-No.) 1310-58-3	1 – 5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318
Sodium Tripolyphosphate	(CAS-No.) 7758-29-4	1 – 5	Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Do not breathe
o not breathe
ing this product

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

07/16/2020

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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) 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

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: 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, Experimental value, GLP)	
ErC50 (algae)	160 mg/l (ISO 8692, 4 day(s), Desmodesmus subspicatus, Fresh water, Experimental value)	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

SECTION 13: Disposal consideration	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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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)	 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. 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. T11 - 6 178.274(d)(2) Normal
	 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. 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.
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 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)	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 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 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 No additional information available National regulations 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

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.