



	1. Product and Company	Identification
Product identifier	Tri-Pow'r HD (4371-88, 4371-86, 4371-	-81)
Other means of identification	Not available	
Recommended use	Heavy duty cleaner	
Recommended restrictions	None known.	
Manufacturer information	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (C	HEMTREC)
Supplier	See above.	
	2. Hazards Identifi	cation
Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		
Signal word	Danger	
-		
Hazard statement	May be corrosive to metals. Causes se	vere skin burns and eye damage.
Precautionary statement Prevention	Koop only in original packaging. Do not	broathe mist or vapor. Wach theroughly after handling
Prevention	Keep only in original packaging. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection.	
Response	Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Storage	Store locked up. Store in a corrosion re	sistant container with a resistant inner liner.
Disposal	Dispose of container in accordance with	h local, regional, national and international regulations.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known	
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	
	3. Composition/Information	on Ingredients

Chemical name	Common name and synonyms	CAS number	%
Alkyl polyglycoside		110615-47-9	1-5*
Potassium hydroxide		1310-58-3	3-7*
Silicic acid, sodium salt		1344-09-8	3-7*
Sodium carbonate		497-19-8	1-5*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		
Composition comments	US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.	

	trade secret.	
	4. First Aid Measures	
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.	
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.	
Eye contact	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.	
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.	
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.	
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically.	
General information	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. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.	
	5. Fire Fighting Measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide.	
Unsuitable extinguishing media	Not available.	
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.	
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.	
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
Hazardous combustion products	May include and are not limited to: Oxides of carbon.	
	6. Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills to original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.	
	7. Handling and Storage	
Precautions for safe handling	Avoid contact with eyes, skin and clothing. Do not breathe mist or vapor. Wear appropriate personal protective equipment. Use only with adequate ventilation. Avoid prolonged exposure. Use good industrial hygiene practices in handling this material. Wash thoroughly after handling.	
Conditions for safe storage, including any incompatibilities	Store in a corrosion resistant container with a resistant inner liner. Store in a cool, dry place out of direct sunlight. Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.	

Occupational exposure limits		
Canada. Alberta OELs (Occ Components	upational Health & Safety Code, Sche Type	dule 1, Table 2) Value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
Safety Regulation 296/97, as	s amended)	for Chemical Substances, Occupational Health and
Components	Туре	Value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
	eg. 217/2006, The Workplace Safety A	-
Components	Туре	Value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
Canada. Ontario OELs. (Con Components	ntrol of Exposure to Biological or Che Type	mical Agents) Value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
Canada. Quebec OELs. (Mir Components	iistry of Labor - Regulation Respectin Type	g the Quality of the Work Environment) Value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
Canada. Saskatchewan OEI Components	.s (Occupational Health and Safety Ro Type	egulations, 1996, Table 21) Value
Potassium hydroxide (CAS 13 3)	310-58- Ceiling	2 mg/m3
,	Well and	
US. ACGIH Threshold Limit Components	Values Type	Value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type	Value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
ological limit values	No biological exposure limits noted for	r the ingredient(s).
kposure guidelines	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.	
ppropriate engineering ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
dividual protection measures,	such as personal protective equipme	nt
Eye/face protection	Wear safety glasses with side shields	(or goggles).
Skin protection		
Hand protection	Impervious gloves. Confirm with repu	table supplier first.
Other	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).	
Thermal hazards	Not applicable.	
eneral hygiene onsiderations	Handle in accordance with good indus and immediately after handling the pro-	strial hygiene and safety practice. Wash hands before break oduct. When using do not eat or drink.
	9. Physical and Chemic	al Properties
nearance	Clear	-
ppearance	Ulcal	

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Physical state
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Liquid.

Form	Liquid	
Color	Orange	
Odor	Pine	
Odor threshold	Not available.	
рН	12.5 (5%) 13.3 (Concentrate)	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Pour point	Not available.	
Specific gravity	Not available.	
Partition coefficient (n-octanol/water)	Not available	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available	
Flammability limit - upper (%)	Not available	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available	
Vapor density	Not available	
Relative density	Not available.	
Solubility(ies)	Complete	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available.	
Viscosity	Not available.	
10. Stability and Reactivity		

Reactivity	May react with incompatible materials.	
Possibility of hazardous reactions	Hazardous polymerization does not occur.	
Chemical stability	Stable under recommended storage conditions.	
Conditions to avoid	Do not mix with other chemicals. Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers.	
Incompatible materials	Oxidizing agents. Acids. Maleic anhydride.	
Hazardous decomposition	May include and are not limited to: Oxides of carbon.	

11. Toxicological Information

Routes of exposure Inform

products

Eye, Skin contact, Inhalation, Ingestion.

•		
Information on likely routes of	exposure	
Ingestion	Causes digestive tract burns. May cause stomach distress, nausea or vomiting.	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Causes severe skin burns.	
Eye contact	Causes serious eye damage.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.	
Information on toxicological e	ffects	
Acute toxicity	Causes burns.	

Components	Species	Test Results
Alkyl polyglycoside (CAS 11	0615-47-9)	
Acute		
Dermal	Dahhit	
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
Inhalation	Not available	
LC50	Not available	
Oral LD50	Rat	> 5000 mg/kg, ECHA
EDGO		> 2000 mg/kg, ECHA
		> 2000 mg/kg, ECHA
Potassium hydroxide (CAS 1 Acute	(310-58-3)	
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	388 mg/kg, ECHA
		365 mg/kg, ECHA
		333 mg/kg, ECHA
		273 mg/kg
Silicic acid, sodium salt (CAS	5 1344-09-8)	
Acute		
Dermal LD50	Rat	> 5000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	> 2.1 mg/L, 4 Hours, ECHA
Oral		·
LD50	Mouse	1100 mg/kg, Toxic and Hazardous
		Industrial Chemicals Safety Manual. Tokyo,
		Japan
	Rat	5150 mg/kg, ECHA
		3400 mg/kg, ECHA
		1.1 g/kg, HSDB
Sodium carbonate (CAS 497	'-19-8)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, ECHA
	Rat	> 2000 mg/kg, ECHA
Inhalation		
LC50	Guinea pig	800 mg/m3, 2 Hours, ECHA
		0.8 mg/L, 2 Hours
	Mouse	1200 mg/m3, 2 Hours, ECHA
		1.2 mg/L, 2 Hours
	Rat	2300 mg/m3, 2 Hours, ECHA
		-
01		2.3 mg/L, 2 Hours
Oral LD50	Rat	4090 mg/kg, RTECS
	Nai	
		2800 mg/kg, ECHA, HSDB
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	

Serious eye damage/eye irritation	Causes seriou	us eye damage.	
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitizatio	on		
Canada - Alberta OELs: Irri	itant		
Potassium hydroxide (C	AS 1310-58-3)	Irritant	
Respiratory sensitization	Not available.		
Skin sensitization	This product is	s not expected to cause skin sensitization.	
Mutagenicity	Not classified.		
Carcinogenicity	Not classified.		
US. OSHA Specifically Reg Not listed.	ulated Substand	ces (29 CFR 1910.1001-1050)	
Reproductive toxicity	Not classified.		
Teratogenicity	Not classified.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not classified.		
Chronic effects	Prolonged inh	alation may be harmful.	
		12. Ecological Information	
Ecotoxicity	See below		
Ecotoxicological data Components		Species	Test Results
Potassium hydroxide (CAS 1310-	-58-3)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	80 mg/L, 96 hours
Silicic acid, sodium salt (CAS 134 Aquatic	14-09-8)		
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.28 - 0.57 mg/L, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	-
			1000 mg/2, 00 houro
Sodium carbonate (CAS 497-19- Crustacea	o) EC50	Daphnia	265 mg/L, 48 Hours
	2030	Daprinia	203 mg/L, 40 mours
Aquatic	EC50	Water flag (Cariadaphaia dubia)	156.6 - 208.0 mg/ 48 hours
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/L, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/L, 96 hours
Persistence and degradability	No data is ava	ailable on the degradability of this product.	
Bioaccumulative potential	No data availa	able.	
Mobility in soil	No data availa	able.	
Mobility in general	Not available.		
Other adverse effects		erse environmental effects (e.g. ozone deple ocrine disruption, global warming potential)	
	1	3. Disposal Considerations	
Disposal instructions	Dispose of co	ntents/container in accordance with local/re	gional/national/international regulations.
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	disposal comp Empty contair		lues. This material and its container must

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.
U.S. Department of Transportation	on (DOT)
Basic shipping requirements	S:
UN number	UN3266
Proper shipping name	Corrosive liquid, basic, inorganic, n.o.s.
Technical name	POTASSIUM HYDROXIDE
Hazard class	8
Packing group	I
Special provisions	386, B2, IB2, T11, TP2, TP27
Packaging exceptions	<0.3 gallons - Limited Quantity
Transportation of Dangerous Go	ods (TDG - Canada)
Basic shipping requirements	S:
UN number	UN3266
Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical name	POTASSIUM HYDROXIDE
Hazard class	8
Packing group	II
Special provisions	16
Packaging exceptions	<1L - Limited Quantity
DOT	
CORROSIVE 8	

TDG



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

 Export Control List (CEPA 1999, Schedule 3)

 Not listed.

 Greenhouse Gases

 Not listed.

 Precursor Control Regulations

 Not regulated.

 WHMIS 2015 Exemptions

 Vot applicable

 US federal regulations

 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

All chemicals used are on the TSCA inventory.

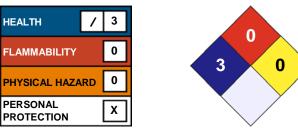
CERCLA Hazardous Substa Potassium hydroxide (CA	· · · · ·	Listed.	
•	ulated Substances (29 CFR 19	10.1001-1050)	
Not listed.			
Superfund Amendments and Re	authorization Act of 1986 (SA	RA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	No		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants	s (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Pr	evention (40 CFR 68.130)	
Not regulated.			
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance		
US state regulations	See below		
US - California Hazardo	us Substances (Director's): L	isted substance	
Potassium hydroxide US - Illinois Chemical S	e (CAS 1310-58-3) afety Act: Listed substance	Listed.	
Potassium hydroxide			
	porting: Listed substance	Listed	
Potassium hydroxide US - Minnesota Haz Sul	· · · · · · · · · · · · · · · · · · ·	Listed.	
Potassium hydroxide	e (CAS 1310-58-3)	Listed.	
US - New Jersey RTK -	Substances: Listed substance	e	
Potassium hydroxide	· /		
	ening Levels: Listed substand e (CAS 1310-58-3)	ce Listed.	
	salt (CAS 1344-09-8)	Listed.	
Sodium carbonate (0		Listed.	
US. Massachusetts RTH			
Potassium hydroxide US. New Jersev Worker	e (CAS 1310-58-3)	ow Act	
Not regulated.			
US. Pennsylvania Work	er and Community Right-to-K	now Law	
Potassium hydroxide US. Rhode Island RTK			
Potassium hydroxide			
US. California Proposition 6 Not Listed.	00		
Inventory status	Inventory		On inventory brack
Country(s) or region Canada	Inventory name Domestic Substances List (D	SL)	On inventory (yes/no Y
Canada	Non-Domestic Substances List (DSL)		1
United States & Puerto Rico	Toxic Substances Control Act		ı Y
			ř

United States & Puerto Rico I oxic Substances Control Act (ISCA) Inventory *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe Serious Moderate Slight Minimal	4 3 2 1

Disclaimer



Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. 13-November-2021

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Version #	01
Effective date	13-November-2021
Prepared by	Nu-Calgon Technical Service Phone: (314) 469-7000
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.