

Power Clean HD

SECTION 1. IDENTIFICATION

Product Identifier	Power Clean HD
Other Means of Identification	13-178
Recommended Use	Please refer to Product label.
Restrictions on Use	None known.
Manufacturer / Supplier	Recochem Inc., 850 Montee de Liesse, Montreal, QC, H4T 1P4, Compliance and Regulatory Department, 905-878-5544, www.recochem.com
Emergency Phone No.	CANUTEC, 613-996-6666, 24 Hours
SDS No.	0884

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) - Category 4; Acute toxicity (Dermal) - Category 4; Acute toxicity (Inhalation) - Category 4; Skin corrosion/irritation - Category 1; Carcinogenicity - Category 2; Specific target organ toxicity (single exposure) - Category 3; Aquatic hazard (Acute) - Category 1; Aquatic hazard (Chronic) - Category 3

GHS Label Elements



Signal Word:
Danger

Hazard Statement(s):

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dusts or mists.
P261	Avoid breathing fume, vapours, spray.
P264	Wash hands and skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

Product Identifier: Power Clean HD
SDS No.: 0884
Date of Preparation: December 03, 2015

P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTRE/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTRE/doctor.
P321 Specific treatment (see supplemental first aid instruction on this label).
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage:

Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
2-Butoxyethanol	111-76-2	3-7	
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	1-5	
Alcohols, C6-12, ethoxylated, liquids	68439-45-2	1-5	
Sodium Metasilicate	6834-92-0	1-5	
Sodium xylenesulfonate	1300-72-7	1-5	

Notes

The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Avoid mouth-to-mouth contact by using a barrier device. Immediately call a Poison Centre or doctor.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Wash

gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Call a Poison Centre or doctor if you feel unwell or are concerned. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a Poison Centre or doctor. If eye irritation persists, get medical advice/attention.

Ingestion

Do not induce vomiting. Rinse mouth with water. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Avoid mouth-to-mouth contact by using a barrier device. Immediately call a Poison Centre or doctor.

First-aid Comments

Get medical advice/attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Immediate Medical Attention and Special Treatment

Target Organs

Skin, eyes.

Special Instructions

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Chemical

Does not burn.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters

Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Product Identifier: Power Clean HD
SDS No.: 0884
Date of Preparation: December 03, 2015

Methods and Materials for Containment and Cleaning Up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for Safe Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Not established	Not established	Not established	Not established		
2-Butoxyethanol	20 ppm		25 ppm			
Alcohols, C6-12, ethoxylated, liquids	Not established	Not established	Not established	Not established		
Sodium Metasilicate	Not established	Not established	Not established	Not established		
Sodium xylenesulfonate	Not established	Not established	Not established	Not established		

Appropriate Engineering Controls

The hazard potential of this product is relatively low. General ventilation is usually adequate. For large scale use of this product: provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Product Identifier: Power Clean HD
SDS No.: 0884
Date of Preparation: December 03, 2015

The following materials should NOT be used: nitrile rubber.

Respiratory Protection

Not normally required if product is used as directed. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear colourless liquid. Colour darkens on exposure to air.
Odour	Odourless
Odour Threshold	Not applicable
pH	13.18 (100% solution)
Melting Point/Freezing Point	0 °C (32 °F) (Water) (melting); 0 °C (32 °F) (Water) (freezing)
Initial Boiling Point/Range	100 °C (212 °F) (Water)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.040 - 1.050 at 20 °C
Solubility	Not applicable in water; Not applicable (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Molecular Weight	Not applicable
Other Physical Property 1	Reserve Alkalinity 3.5 / 100mL

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Temperatures above 62.0 °C (143.6 °F)

Incompatible Materials

None known.

Hazardous Decomposition Products

None known.

Product Identifier: Power Clean HD
SDS No.: 0884
Date of Preparation: December 03, 2015

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Not available	Not available	Not available
2-Butoxyethanol	450 mg/m ³ (rat) (4-hour exposure)	320 mg/kg (rabbit)	220 mg/kg (rabbit)
Alcohols, C6-12, ethoxylated, liquids	Not available	Not available	Not available
Sodium Metasilicate	Not available	1152-1349 mg/kg (rat)	> 4640 mg/kg (rabbit)
Sodium xylenesulfonate	Not available	Not available	Not available

LC50: Not applicable.

LD50 (oral): Not applicable.

LD50 (dermal): Not applicable.

Skin Corrosion/Irritation

Animal tests show moderate or severe irritation. Symptoms include pain, redness, and swelling. Repeated or prolonged exposure can irritate or burn the skin. (2-Butoxyethanol)

Serious Eye Damage/Irritation

Animal tests show serious eye irritation. (2-Butoxyethanol)

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Harmful based on animal tests. At high concentrations blood function tests may show abnormal results. Severe nose and throat irritation. Symptoms may include lower back pain, nausea, vomiting and blood in the urine. (2-Butoxyethanol)

Skin Absorption

May be harmful based on human experience and animal tests. Can cause effects as described for inhalation. (2-Butoxyethanol)

Ingestion

May be harmful based on human experience and animal tests. If large amounts are swallowed depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. Can cause effects as described for inhalation.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause Following skin contact: dermatitis. Symptoms may include dry, red, cracked skin (dermatitis). (2-Butoxyethanol) may cause If inhaled, following skin contact and/or if swallowed: blood tests may show abnormal results. (2-Butoxyethanol)

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Benzenesulfonic acid, mono-C10-16-alkyl derivs.,	Not Listed	Not designated	Not Listed	Not Listed

Product Identifier: Power Clean HD

SDS No.: 0884

Date of Preparation: December 03, 2015

sodium salts				
2-Butoxyethanol	Group 3	A3	Not Listed	Not Listed
Alcohols, C6-12, ethoxylated, liquids	Not Listed	Not designated	Not Listed	Not Listed
Sodium Metasilicate	Not Listed	Not designated	Not Listed	Not Listed
Sodium xylenesulfonate	Not Listed	Not designated	Not Listed	Not Listed

Key to Abbreviations

A3 = Animal carcinogen.

Group 3 = Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity

Development of Offspring

May cause effects on the unborn child based on limited evidence. If inhaled and/or swallowed. (2-Butoxyethanol)

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not known to be a mutagen.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Not available	Not available		
2-Butoxyethanol	220 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water)	1815 mg/L (Daphnia magna (water flea); 24 hr)		
Alcohols, C6-12, ethoxylated, liquids	Not available	Not available		
Sodium Metasilicate	210 mg/L (Zebra Fish; 96-hour)	Not available		
Sodium xylenesulfonate	Not available	Not available		

Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Not available		Not available	
2-Butoxyethanol	Not available		Not available	
Alcohols, C6-12, ethoxylated, liquids	Not available		Not available	

Sodium Metasilicate	Not available		Not available	
Sodium xylenesulfonate	Not available		Not available	

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

Environmental Hazards Potential Marine Pollutant (Alcohols, C6-12, ethoxylated, liquids)

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Compliance and Regulatory Department

Phone No. 905-878-5544

Date of Preparation December 03, 2015

Additional Information We are committed to uphold the Industry Consumer Ingredient Communication Voluntary Initiative.

Please send us your request by visiting our website at www.recochem.com.

Ingredients present (intentionally added ingredients) at a concentration of greater than one percent (1%) shall be listed in descending order of predominance. Ingredients present at a concentration of not more than one percent shall be listed but may be disclosed without

Product Identifier: Power Clean HD
 SDS No.: 0884
 Date of Preparation: December 03, 2015

Disclaimer

respect to order of predominance.

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.