PROFESSIONAL CLEANING PRODUCTS

SAFETY DATA SHEET

1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name **CLR PRO® HEAVY DUTY CLEANER & DEGREASER**

Restrictions on Use Incompatible with strong oxidizing agents, acids. and bleach.

Product Use Aqueous Industrial Strength Degreaser Cleaner for Removal of Oil, Grease and Tar on Cement, Terrazzo, Stone Floors, Blacktop, Sidewalks, Motors, Garage Floors, and Motors
Commercial Package: (32 fl. Oz., 1, 5, and 55 gallons)

Manufacturer: **Jelmar, LLC**
Address: 5550 W. Touhy Ave.
Skokie, IL 60077 USA
1(847) 675-8400
Emergency Phone Number: 1(800) 323-5497 (USA) 8:30 A.M. – 4:30 P.M. CST Monday – Friday
Emergency 24 hour Contact: Chemtrec 1(800) 424-9300

2 – HAZARDS IDENTIFICATION

COMPLIES WITH 29CFR 1900.1200 DATED MAY 2012

WARNING

ACUTE EYE IRRITATION (Category 2B)
ACUTE DERMAL IRRATION (Category 3)

HAZARD NOT OTHERWISE CLASSIFIED (HNOC)
Not applicable

OTHER INFORMATION
No information available.

DO NOT get in eyes, on skin or clothing.
DO NOT mix with bleach or other household chemicals harmful; fumes may result.
DO NOT ingest.
DO NOT breathe vapor or mist. Use in well ventilated areas. Keep container closed when not in use.

KEEP OUT OF REACH OF CHILDREN

Hazard statement(s) Causes eye irritation.
May cause skin irritation.

Precautionary statement (s)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
IF ON SKIN: Wash with plenty of soap and water.
Wash skin thorough after handling.
If skin irritation or rash occurs: Get medical advice/attention.
Do not eat, drink or smoke when handling this product.
Wear protective gloves.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Avoid breathing fumes.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

Component	CAS#	OSHA HAZARD	% by Weight
1. Alcohols, C9-11, ethoxylated	68439-46-3	YES	2.00-9.00
2. Sodium Metasilicate Anhydrous	6834-92-0	YES	1.00-4.75
3. Sodium Xylenesulphonate	1300-72-7	YES	1.00-3.00

The exact percentages (concentration) of mixture has been withheld as a trade secret in accordance to paragraph (i) of §1910.1200.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. If irritation persists, get medical attention.
SKIN CONTACT: Can be irritating to skin, prolonged contact can be more severe, no adverse effects during normal usage. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before reuse. If irritation persists get medical attention.
INHALATION: Not a significant route of exposure. Remove to fresh air. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.
INGESTION: DO NOT induce vomiting. If fully conscious, drink 16 ounces of water. CALL A PHYSCIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER give an unconscious person anything to ingest.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Not flammable. Use appropriate media for area. Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.
HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide. Thermal decomposition can lead to irritating gases and vapors.
FIRE FIGHTING METHODS: Evacuate area of personnel. Wear protective NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.
FIRE AND EXPLOSION HAZARDS: None known.

SECTION 6 – ACCIDENTAL RELEASES MEASURES

Steps to be taken in Case Material is Released or Spilled: Avoid contact with skin and eyes
Small Spill: No special clean-up procedure is necessary for small (less than 1 gallon) spills. Flush spill area with water. Wear rubber gloves.

Large Spill: Use personal protection recommended in Section 8. Isolate area, and deny entry to unnecessary and unprotected personnel. Dam spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Area may be slippery. Avoid direct discharge to sewers and surface waters. Do not transfer to metal containers.

SECTION 7- HANDLING AND STORAGE

HANDLING and STORAGE: HANDLING and STORAGE: Avoid contact with eyes, skin or clothing. May be harmful if swallowed. Use *with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash* hands thoroughly after use. Industrial size container (1, 5, 55 gallon), should be rinsed and recycled. Store in cool well-ventilated area away from heat. Store in original container in a secure area away from children and pets. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Avoid contact with strong oxidizing agents, acids, bases, and bleach.

DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT. KEEP OUT OF REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:	OSHA		ACGIH	
COMPONENT	**PEL**	**STEL/C**	**TWA**	**STEL/C**
1. Alcohols, C9-11, ethoxylated	N.E	N.E.	N.E.	N.E.
2. Sodium Metasilicate Anhydrous	N.E.	N.E.	N.E.	N.E.
3. Sodium Xylenesulphonate	N.E.	N.E.	N.E.	N.E.

VENTILATION REQUIREMENT: Avoid prolonged breathing mists or dusts of this product. Use with adequate ventilation. Do not use in closed or confined spaces.

RESPIRATORY PROTECTION: In an industrial setting, respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If mist or dust is present, wear NIOSH-Approved respirator for dusts and mists, NIOSH-Approved self-contained breathing apparatus, NIOSH-Approved full-face piece positive-pressure, air-supplied respirator. DO NOT exceed limits established by respirator manufacturer.

Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

EYE PROTECTION: Industrial users wear safety goggles. Do not wear contact lenses. Emergency responders should wear full eye and face protection.

SKIN PROTECTION: Rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.

OTHER PROTECTION: Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after use or handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid		**Flammability:**	Not Flammable
Odor: Surfactant		**Upper/Lower Flammability**	N.A.
Odor Threshold:	N.D.	**Vapor Pressure:**	N.D
pH: @20ºC	12.40-13.00	**Vapor Density (mm Hg):**	N.D.
Melting Point:	N.D.	**Relative Density @20ºC:**	1.030 – 1.040
Freezing Point:	N.D	**Solubility in water**:	100%

Boiling Point:	93.3ºC / 200ºF	**Partition Coefficient; n-octanol/water**	N.D.
Boiling Point Range:	N.A**.**		
Flash Point:	None	**Auto Ignition Temperature**:	N.A.
Evaporation Rate:	N.D	**Decomposition Temperature:**	N.A.
		Viscosity:	N.D.

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: N.A.
CHEMICAL STABILITY: Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS: N. D.
CONDITIONS TO AVOID: Avoid elevated temperatures.
INCOMPATIBLE MATERIALS: Strong oxidizing agents, acids, and bleach.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can lead to release of irritating gases, vapors and carbon oxides. In the event of fire: see Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure	Eyes, Skin, Inhalation, Ingestion.
Eyes	Irritant: avoid eye contact. Effects may vary depending on length of exposure, solution concentration
Skin	Mild Irritant. Prolonged contact may cause dermatitis, and itching.
Inhalation	No adverse effects expected under typical use conditions.
Ingestion	Vomiting and gastrointestinal disturbance.

LD_{50} ACUTE EYE IRRITATION: GHS Toxicity Category 2B
LD_{50} ACUTE DERMAL IRRATION - RABBITS: GHS Category 3.
LD_{50} ACUTE ORAL TOXICITY – RATS: >5,000 mg/kg
LD_{50} ACUTE DERMAL TOXICITY – RABBITTS: >5,000 mg/kg
LD_{50} ACUTE INHALATION TOXICITY – RATS: Not toxic by inhalation.

This product does not contain any substances that are considered carcinogenic by the National Toxicology Program (NTP) Report on Carcinogens and have not been found to be potential carcinogens in the International Agency for Research on Cancer (IARC) Monographs or found to be potential carcinogens by OSHA.

Reproductive Toxicity: N.A.
Specific Target Organ Toxicity – Single Exposure N.A.
Specific Organ Toxicity – Repeated Dose: N. A.

SECTION 12- ECOLOGICAL INFORMATION

ALCOHOLS, C9-11, ETHOXYLATED:

Ecotoxicity

No data on product itself

Toxicity to fish – Components

Alcohol, C9-11, ethoxylated	LC50 (96 hr.): 8.5 mg/l Species: Fathead minnow (Pimephales promelas).

Toxicity to daphnia – Components

Alcohol, C9-11, ethoxylated	EC50 (48 hr.): 5.3 mg/l Species: Daphnia

Toxicity to other organisms: No data available.

Persistence / degradability:

Biodegradability: Readily biodegradable, as defined by OECD, substance that degrades >60-70% within a 10 day window over 28 days.

Mobility: No data available

Bioaccumulation: No data on the product itself.

Sodium Xylenesulphonate (SXS)

Ecotoxicity

Algae EC50 Algae >= 230 mg/kg, 72 hours
Crustacea EC50 Daphnia >= 1000 mg/l, 48 hours
Fish LC50 Fish >= 1000 mg/l, 96 hours

Persistence and degradability

Readily biodegradable.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Ecotoxicity

Aquatic Toxicity:

This material has exhibited moderate toxicity to aquatic organisms.

FATE AND TRANSPORT:

Biodegradation:
This material is inorganic and not subject to biodegradation.

Persistence:

This material is believed to persist in the environment.

Bioconcentration:

This material is not expected to bioconcentrate in organisms.

Additional Ecological Information:

This material has exhibited slight toxicity to terrestrial organisms.
potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Rinse empty containers and recycle. Dispose of unused product in a permitted hazardous waste management facility following all local, state, and federal regulations.
Follow label warnings, since containers may retain some reside of the product. Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

UN Number: N.A.
UN Proper Shipping Name: N.A.
DOT (Department of Transportation Proper Shipping Name): Not regulated by DOT.
Packaging Group: N.A.
Environmental Hazard: Marine - NO
TDG Classification: Not Regulated
IMDG Classification: Not Regulated
IATA Classification: Passenger – Not Regulated
WHIMS (Canada): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by CPR.

SECTION 15 – REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA TITTLE III SECTION 311/312 CATEGORY:

IMMEDIATE (ACUTE) HEALTH HAZARARD:	YES
DELAYED (CHRONIC) HEALTH HAZARD:	NO
FIRE HAZARD:	NO
SUDDEN RELEASE OF PRESSURE:	NO
REACTIVE HAZARD:	NO

SARA SECTIONS 302/304/313/HAP: NO

INTERNATIONAL CHEMICAL INVENTORY STATUS:

EUROPEAN UNION (EINECS)	YES
JAPAN (METI)	YES
AUSTRALIA (ACIS)	YES
KOREA (KECL)	YES
CANADA (DSL)	YES
CANADA (NDSL)	NO
PHILIPPINES	YES

STATES RIGHT TO KNOW: California, New Jersey, Pennsylvania, Minnesota, Massachusetts, and Wisconsin. Complies with listed States Right to Know Acts.

The following statement is made in order to comply with the California State Drinking Water Act. California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects and other reproductive harm.

SECTION 16 – OTHER INFORMATION

HAZARDOUS WASTE NUMBER: D002

Precautions to be taken in Handling and Storing: Avoid exposure to excess heat, and prevent from freezing.

NFPA: 1, 0, 1. 0

Total VOC (wt. %): 0.128% - does not include any CARB applicable exemptions (Volatile Organic Compounds)/California Air Resources Board

CLR PRO® HEAVY DUTY CLEANER & DEGREASER CHEMICAL FATE INFORMATION: 28-day biodegradation. The matter is readily biodegradable.

Food Facility Categories: Per federal guidelines as detailed in FDA 21 CFR:

(A1) General Purpose Cleaners
(A4) Floor & Wall Degreasers
(A8) Degreasers/Carbon Removers

Other Precautions: None required.

SDS ABBREVIATIONS:	N. A.:	Not Applicable
	N. D.:	Not Determined
	N.E.:	Not Established
	C:	Ceiling Limit
	HAP:	Hazardous Air Pollutant
	VOC:	Volatile Organic Compound

Revision: Section 3 - Additional Information; Section 12 **R. A. Gaudreault**

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