

Safety Data Sheet – CLEAN 505® Liquid Cleaning Solution

SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME:.....CLEAN 505 (LIQUID GENERAL PURPOSE OR AUTOMATIC DISPENSER)

PRODUCT CODE:020615-00 or 020616-00 (12391)

SYNONYMS:.....Product is a mixture: No synonyms are available.

PRODUCT USE:Cleaning Solution, Chlorine Base

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE:.....Cleaning agent

USES ADVISED AGAINST:Use only as stated on label

SUPPLIER:Cenorin, LLC

SUPPLIER'S ADDRESS:6324 South 199th Place Suite 107, Kent, WA 98032; 253-395-2400

EMERGENCY RESPONSE NUMBER: INFOTRAC U.S. & CANADA: 1-800-535-5053; INTERNATIONAL: 1-352-323-3500

SECTION 2 – HAZARD IDENTIFICATION



HAZARD PICTOGRAMS:

SIGNAL WORD:WARNING

GHS PHYSICAL HAZARD STATEMENT:..... Moderately alkaline material. May be corrosive to some metals.

GHS HEALTH HAZARD STATEMENT: Harmful if swallowed. May cause severe skin burns and eye damage.
May cause respiratory irritation. Harmful to aquatic life.

GHS LABEL ELEMENTS:.....The product is classified and labeled according to the Globally Harmonized System (GHS).

PRECAUTIONARY STATEMENTS: If medical advice is needed, have product container or label at hand.
Keep out of reach of children. Read label before use. Do not breathe dust, fumes, gas, mist, vapors, or spray. Wash skin and contaminated clothing thoroughly after handling.
Do not eat, drink or smoke when using this product. Wear suitable protective gloves, protective clothing, eye protection and face protection.

.....IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

.....IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

.....IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

.....IF INGESTED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Dispose of contents/container in accordance with local/regional/national/international regulations. Store locked up.

CLASSIFICATION SYSTEM:.....NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.

NFPA ratings (scale 0-4):.....Health = 2, Fire = 0, Reactivity = 1

HMIS ratings (scale 0-4):Health = 2, Fire = 0, Reactivity = 1

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:Mixtures

Description:Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Sodium Hypochlorite	1-5	7681-52-9	321-668-3	Metal Corr. Cat 1, Skin Corr. Cat 1B Eye Dam Cat. 1, STOT SE 3 Aquatic Acute Cat. 1, Aquatic Chronic Cat 1.
Tetrapotassium Pyrophosphate	1-5	7320-34-5	230-785-7	Eye Irrit Cat. 2

Corr. = Corrosion, Cat. = Category, Irrit. = Irritation, Dam. = Damage.

Also contains < 1%, non hazardous biodegradable surfactant(s).

Exact percentage of components have been withheld as it is considered proprietary information.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT:Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Get immediate medical attention.

SKIN CONTACT:.....Remove contaminated clothing and shoes. Wash affected skin area with soap and water. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention if needed.

SWALLOWING (INGESTION):...If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION:.....Remove to fresh air. Get immediate medical attention.

OTHER INSTRUCTIONS:Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:Dry chemical, foam, water or carbon dioxide.

SPECIAL PROTECTIVE EQUIPMENT

AND PRECAUTIONS FOR FIRE FIGHTERS: In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.

UNUSUAL FIRE AND

EXPLOSION HAZARDS:No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT

AND EMERGENCY PROCEDURES:Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PRECAUTIONS:Keep spilled material away from sewage/drainage systems and waterways. This product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See section 15 for more information.

METHODS AND MATERIALS FOR

CONTAINMENT AND CLEAN UP:All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

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SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:.....Use with adequate ventilation. Wear proper protective equipment. Do not mix with acids without proper dilution and agitation to prevent a potentially violent reaction.
CONDITIONS FOR SAFE STORAGE:.....Store in closed, properly labeled containers. Protect containers from heat, physical damage, incompatible materials. Have emergency equipment for fires and spills readily available.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE):..... The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	(USA)	OSHA PEL – TWA	ACGIH TLV-Ceiling	ACGIH – STEL
Sodium Hypochlorite		2 mg/m ³	Not Established	2mg/m ³
Tetrapotassium Pyrophosphate		Not Established	Not Established	Not Established

EYE PROTECTION:Wear chemical splash goggles or face shield.

SKIN PROTECTION:.....Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.

RESPIRATORY PROTECTION:If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

VENTILATION:Ensure adequate ventilation.

ADDITIONAL MEASURES: Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE: .Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:Clear light yellow/green liquid with mild odor

ODOR:Mild odor.

ODOR THRESHOLD:Not Available

pH: 11.75 ± 0.25 As Is

MELTING POINT/FREEZING POINT: Not available

BOILING POINT:Not available

FLASHPOINT:Not applicable

EVAPORATION RATE:Not Available

FLAMMABILITY:Non flammable, non combustible

LOWER FLAMMABILITY LIMIT: Not applicable

UPPER FLAMMABILITY LIMIT: Not applicable

VAPOR PRESSURE:Not Available

VAPOR DENSITY (AIR=1):Not determined

RELATIVE DENSITY:..... 1.04

SOLUBILITY IN WATER:.....Soluble in water

PARTITION COEFFICIENT n-OCTANOL/WATER: Not Available

AUTOIGNITION TEMPERATURE: Not Available

DECOMPOSITION TEMPERATURE: Not Available

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SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

HAZARDOUS CONDITIONS TO AVOID: No decomposition if used according to specifications.

INCOMPATIBLE MATERIALS: Keep away from strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

SHELF LIFE: One year from the date of manufacture.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:..... Sodium Hypochlorite

Primary Route(s) of Exposure: Eye, skin contact, inhalation

Potential Health Effects: Causes skin burns. Onset of symptoms may be delayed following exposure.

Eye Contact: Causes severe eye damage.

Skin Contact: Causes skin burns. Onset of symptoms may be delayed following exposure.

Inhalation: Corrosive to respiratory tract.

Ingestion: May be harmful if swallowed. Ingestion may cause chemical burns, pain vomiting, difficulty breathing and other gastrointestinal effects.

CARCINOGENICITY: The components of this product are not classified as carcinogenic by OSHA, NTP or IARC.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma and other respiratory conditions, skin disorders.

TOXICOLOGICAL INFORMATION:..... Tetrapotassium Pyrophosphate

Acute Eye Irritation: Eye - eye irritation, rabbit. This material is expected to cause significant irritation to the eyes.

Acute Skin Irritation: skin - skin irritation, rabbit: moderately irritating.

Acute Dermal Toxicity: LD50 - lethal dose 50% of test species, > 4640 mg/kg, rabbit.

Acute Respiratory Irritation: ... No test data found for product.

Acute Inhalation Toxicity: No test data found for product.

Acute Oral Toxicity: Toxicological Information and Interpretation:

LD50 - lethal dose 50% of test species: > 1000 mg/kg, rat.

LD50 - lethal dose 50% of test species: 2444 mg/kg, rat.

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Sodium Hypochlorite

ECOTOXICITY: This material may be toxic to aquatic organisms.

BIODEGRADABILITY: Degrades slowly to sodium chloride, sodium chlorate and oxygen.

ECOLOGICAL INFORMATION: Tetrapotassium Pyrophosphate

ECOTOXICOLOGICAL INFORMATION: No data found for product.

CHEMICAL FATE INFORMATION: No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

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SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME: Hypochlorite, Solution
HAZARD CLASS AND LABEL: 8 (Corrosive)
UN NUMBER: 1791
PACKAGING GROUP: PG-III
EPA REPORTABLE QUANTITY (RQ): 100 LBS. (45.4 KG) as Sodium Hypochlorite 100%.
MARINE POLLUTANT: Not listed.
EMERGENCY RESPONSE GUIDE: 154



(NOTE: The shipping data is based on 10 to 15% Chlorine level. Exact percentage of components has been withheld as it is considered proprietary information. However, the percentage of Hypochlorite falls well below the 10 to 15% range.)

CFR 173.154(b) Exceptions for Class 8 (corrosive materials) for single gallon containers:
May ship as limited quantities.
Class 8 in Packing Groups II and III are excepted from labeling requirements.
Air shipments see additional requirements under CFR 173.154 (b).

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN:..... Not listed.
TSCA STATUS:..... The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)
SARA SECTION 302:..... None
SARA SECTION 311/312 HAZARD CLASS: Not available
SARA SECTION 313:..... Not listed
NFPA HEALTH:..... 2
NFPA FLAMMABILITY: 0
NFPA REACTIVITY:..... 1

SECTION 16 – OTHER INFORMATION

REFERENCES:..... The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Cenorin, LLC assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

IMDG:..... International Maritime Code for Dangerous Goods
DOT:..... US Department of Transportation
IATA:..... International Air Transportation Association
ACGIH:..... American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
TOST:..... Target Organ Systemic Toxicity
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