



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): Crown Deck & Patio Cleaner
Product Code(s): 83325A
Uses: A solution used as a multi-purpose, extra heavy duty cleaner for decks and patios.
Company: Crown Marketing, Inc.
Address: P.O. Box 1142; Nicholasville, KY 40340-1142; USA
Telephone Number: (800) 827-2364 Fax Number: (800) 827-2311
Emergency Telephone Number: Not available.
Date Issued: July 6, 2011 Date Revised: May 5, 2015

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification: **WARNING**
Eye Irritation (Category 2A)
Skin Irritation (Category 2)



GHS Hazard Statements: Causes serious eye irritation
Causes skin irritation

GHS Precautionary Statements: Prevention:
Wash hands/skin thoroughly after handling.
Wear protective gloves/eye protection/face protection.

Response:
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/attention.
If on skin: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage:
None.

Disposal:
None.

GHS Assessment: Approximately 4% of this mixture consists of ingredient(s) of unknown acute toxicity.
Approximately 4% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Water	7732-18-5	231-791-2	85.0 - 97.0%
Ethylene Glycol Monobutyl Ether	111-76-2	203-905-0	3.0 - 3.9%
Sodium metasilicate	6834-92-0	229-912-9	0.5 - 2.0%

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

- First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.
- First Aid - Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately if irritation develops and/or persists. Wash contaminated clothing before reuse.
- First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
- First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
- Important Symptoms / Effects – Acute and Delayed: Tissue redness/irritation, headache, nausea.
- Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

- Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
- Specific Hazards: This product is not flammable. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.
- Protective equipment and procedures for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.
- Additional Advice: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Spill Procedures: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water.
- Personal Precautions: Wear suitable protective clothing.
- Environmental Precautions: BULK QUANTITIES: Prevent this materials from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

- Handling: Use this material in a well-ventilated area. If exposed to the solution, avoid contact with skin and eyes. Wash thoroughly after handling solution.
- Storage: Use and store this material in dry areas at ambient temperatures away from heat, direct sunlight and hot metal surfaces. Keep away from any incompatible materials (see Section 10).
- Additional Advice: Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Occupational Exposure Standards: Exposure limits are listed below, if they exist.
- Water: None.
- Ethylene Glycol
Monobutyl Ether: ACGIH TLV: 20 ppm TWA.
EU: 20 ppm (98mg/m³) TWA.
EU: 50 ppm (246mg/m³) STEL.
UK: 25 ppm TWA.
UK: 50 ppm STEL.
OSHA PEL: 50 ppm TWA.
- Sodium metasilicate: None.
- Engineering Control Measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
- Respiratory Protection: A NIOSH certified self-contained breathing apparatus or air purifying respirator with an organic cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.
- Hand Protection: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
- Eye Protection: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, goggles or a face shield may be necessary.
- Body Protection: Not required under normal use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical State: Liquid
- Color: Colorless
- Odor: Mild, ether-like
- Odor Threshold: 9.3 mg/l (Ethylene glycol monobutyl ether)
- pH: 12.0 - 13.0
- Melting Point/Range (°C/°F): ca. 0°C / 32°F (Water)
- Boiling Point/Range (°C/°F): ca. 100°C / 212°F (Water)
- Flash Point (PMCC) (°C/°F): > 94°C / 201°F
- Evaporation Rate: Not available.
- Flammability / Explosivity Limits in Air (%): Not available.
- Vapor Pressure: 0.88 mmHg (25°C) (Ethylene glycol monobutyl ether)
23.8 mmHg (25°C) (Water)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density (Air = 1):	Not available.
Relative Density:	1.022 (20°C)
Solubility in Water:	Completely soluble.
Partition Coefficient:	Not available.
Autoignition Temperature (°C/°F):	Not available.
Decomposition Temperature (°C/°F):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	ca. 30.7 - 39.9 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Oxidizing agents, strong acids.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen, oxides of phosphorus, oxides of sodium, oxides of sulfur, oxides of silicon, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:	This product is not expected to be appreciably toxic. (Water) No data. (Ethylene glycol monobutyl ether) Oral LD50 (rat) 1.48 g/kg; Dermal LD50 (rabbit) 400 mg/kg; Inhalation LC50 (rat) 450-486 ppm/4 hr (Sodium metasilicate) Oral LD50 (rat) 1280 mg/kg
Skin Corrosion / Irritation:	The product may be irritating to the skin. (Water) No data. (Ethylene glycol monobutyl ether) Slightly irritating to skin (rabbit). (Sodium metasilicate) Corrosive to skin.
Serious Eye Damage / Irritation:	The product may be severely irritating to the eyes. (Water) No data. (Ethylene glycol monobutyl ether) Irritating to eyes (rabbit) (Sodium metasilicate) Corrosive to eyes (rabbit). Irritating to eyes (rabbit - 5%)
Respiratory or Skin Sensitization:	The product is not expected to be dermally sensitizing. (Water) No data. (Ethylene glycol monobutyl ether) Not sensitizing in guinea pigs. (Sodium metasilicate) Not dermally sensitizing (mouse).
Mutagenicity:	This product is not expected to be mutagenic. (Water) No data. (Ethylene glycol monobutyl ether) Generally not regarded as genotoxic. (Sodium metasilicate) Not mutagenic (Ames test system and chromosome aberration assay).

SECTION 11 TOXICOLOGICAL INFORMATION

Carcinogenicity:	This product is not expected to be carcinogenic. (Water) No data. (Ethylene glycol monobutyl ether) In inhalation studies there was some evidence of carcinomas of the liver and stomach in mice. Studies on rats were equivocal. Classified as non-carcinogenic in humans (IARC). (Sodium metasilicate) No data.
Reproductive / Developmental Toxicity:	This product is not expected to be developmentally harmful. (Water) No data. (Ethylene glycol monobutyl ether) No adverse reproductive or developmental effects have been observed at less than toxic doses. (Sodium metasilicate) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Water) No data. (Ethylene glycol monobutyl ether) Significant changes to red blood cells have been observed in rats and mice. (Sodium metasilicate) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	(Water) No data. (Ethylene glycol monobutyl ether) Adverse effects on the central nervous system, kidneys and liver occur at higher exposure concentrations than do the blood effects in rats. (Sodium metasilicate) Orally dosed dogs developed kidney damage; this effect was not observed in rats.
Aspiration Hazard:	This product is not expected to be an aspiration hazard.
Additional Information:	None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity:	This product is not expected to be appreciably toxic to aquatic species. (Water) No data. (Ethylene glycol monobutyl ether) LC50 (Rainbow trout) > 1000 mg/l/96 hr; LC50 (Fathead minnow) 2137 mg/l/96 hr; LC50 (Daphnia magna) 1720 mg/l/24 hr. (Sodium metasilicate) LC50 (Mosquito fish) 2320 mg/l/96 hr.
Mobility:	(Water) No data. (Ethylene glycol monobutyl ether) Expected to have high mobility based upon an estimated Koc of 67. (Sodium metasilicate) No data.
Persistence/Degradability:	(Water) No data. (Ethylene glycol monobutyl ether) Expected to rapidly degrade in water. (Sodium metasilicate) No data.
Bioaccumulation:	(Water) No data. (Ethylene glycol monobutyl ether) An estimated BCF of 3 suggests the potential for bioconcentration in aquatic organisms is low. (Sodium metasilicate) No data.
Other adverse effects:	None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions:	BULK QUANTITIES: Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.
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SECTION 13 DISPOSAL CONSIDERATION

Product Disposal:	Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
Container Disposal:	Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT Proper Shipping Name:	Not regulated.
UN Number:	None.
UN Class:	None.
UN Packaging Group:	None.
Reportable Quantity:	None.
Marine Pollutant:	None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Consult current IATA Regulations prior to shipping by air.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian Domestic Substance List:	All components of this product are listed or exempt from listing on the Domestic Substance List.
EU Existing Inventory of Chemical Substances:	All components of this product are in compliance with the inventory listing requirements of the E.U. Existing Inventory of Chemical Substances (EINECS). All components have been pre-listed under REACH.
TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.
Canadian WHMIS Classification:	D.2.B This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
Massachusetts Right-To-Know:	This product contains materials subject to disclosure under the Massachusetts' Right-To-Know Law: - Ethylene glycol monobutyl ether
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey's Right-To-Know Law: - Ethylene glycol monobutyl ether (0275)
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania's Right-To-Know Law: - Ethylene glycol monobutyl ether
California Proposition 65:	This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm: - Ethylene oxide (trace residual - < 20ppm)

SECTION 15 REGULATORY INFORMATION

	- Formaldehyde (trace residual - < 2ppm) - Nitrotriacetic acid, trisodium salt monohydrate - < 0.003%)
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard
SARA TITLE III-Section 313 (40 CFR 372):	This product contains materials which are listed in Section 313 at or above de minimis concentrations: - Ethylene glycol monobutyl ether (as glycol ethers)
CERCLA Hazardous Substance (40 CFR 302)	This product contains materials subject to reporting under CERCLA and Section 304 of EPCRA: - Ethylene glycol monobutyl ether (as glycol ethers)
Water Hazard Class (WGK):	This product is slightly water-endangering (WGK=1).
Other Chemical Inventories:	Australia (AICS): All components listed or exempt from listing. China (IECSC): All components listed. Japan (ENCS): All components listed or exempt from listing. Korea (KCI): All components listed or exempt from listing. Philippines (PICCS): All components listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH:	2		
NFPA Rating - FIRE:	1		
NFPA Rating - REACTIVITY:	0		
NFPA Rating - SPECIAL:	NONE		
SDS Date Issued:	July 6, 2011		
SDS Current Version:	2.1	Version Date:	May 5, 2015
SDS Revision History:	v2.1 Review and update to GHS format.		
Abbreviations:	GHS: Globally Harmonized System of Classification and Labeling of Chemicals CAS#: Chemical Abstract Services Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration NFPA: National Fire Protection Association DOT: US Department of Transportation RCRA: US Resource Conservation and Recovery Act TLV: Threshold Limit Value TWA: Time-Weighted Average PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit WEEL: Workplace Environmental Exposure Levels AIHA: American Industrial Hygiene Association NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk S: Safety LD50: Lethal Dose 50% LC50: Lethal Concentration 50% EC50: Effective Concentration 50% BCF: Bioconcentration Factor BOD: Biological Oxygen Demand Koc: Soil Organic Carbon Partition Coefficient. Tlm: Median Tolerance Limit		

SECTION 16 OTHER INFORMATION

Key References: United States National Library of Medicine's TOXNET
Patty's Toxicology, 5th Edition
European Commission's Institute for Health and Consumer Protection
American Conference of Governmental Industrial Hygienists
International Agency for Research on Cancer
United States National Toxicology Program
United States Occupational Safety and Health Administration
United States Department of Transportation
Supplier Material Safety Data Sheets

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