

# SAFETY DATA SHEET

## Blue Flash H.D. Cleaner/Degreaser

Prepared according to U.S. OSHA, CMA, ANSI, Canadian WHMIS regulations

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Blue Flash H.D. Cleaner/Degreaser**  
PRODUCT DESCRIPTION: Cleaner/Degreaser  
U.N. NUMBER: UN1760  
U.N. DANGEROUS GOODS CLASS: Corrosive liquid, n.o.s. (Contains Sodium Metasilicate)  
SUPPLIER/MANUFACTURER'S NAME: **Modrak Products Co. Inc.**  
ADDRESS: 3700 Clark Road, Gary Indiana 46408 USA  
EMERGENCY PHONE: 1-219-838-0308 (For Emergencies Only)  
BUSINESS PHONE: 1-219-838-0308 (For product information)  
DATE OF PREPARATION: April 7, 2014  
DATE OF LAST REVISION: October 7, 2013

### SECTION 2 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

This product is a purple colored liquid with a characteristic odor.

**HEALTH HAZARDS:** Repeated or prolonged contact with skin may cause irritation. Contact with eyes can cause irritation. Inhalation of vapors may cause irritation and/or drowsiness and dizziness.

**FLAMMABILITY:** This product is a combustible liquid with a flash point <200°F

**ENVIRONMENTAL EFFECTS:** The Environmental effects of this product have not been investigated, however this product contains ingredients that may cause adverse effects to aquatic life.

#### US DOT SYMBOLS



#### CANADA (WHMIS) SYMBOLS



#### GHS HAZARD SYMBOL(S)



Signal Word: **Warning!**

#### COMPONENTS DETERMINING HAZARDS:

2-Butoxyethanol, Isopropyl Alcohol, Sodium Metasilicate, Ethanolamine

#### GHS HAZARD CLASSIFICATION(S):

Combustible liquid Category 4  
Acute Oral Toxicity Category 5  
Eye Irritation Category 2B  
Skin Irritation Category 4  
STOT SE Category 3

#### HAZARD STATEMENTS:

Combustible liquid  
May be harmful if swallowed  
Causes skin irritation  
Causes eye irritation  
May cause respiratory irritation

#### PRECAUTIONARY STATEMENTS:

Avoid exposure  
Use only with adequate ventilation.  
Wash thoroughly after handling.  
In case of an accident or if you feel unwell – seek medical advice and show label

#### HEALTH HAZARDS OR RISKS FROM EXPOSURE:

##### ACUTE:

**EYE CONTACT:** Exposure to this product may cause severe eye irritation.

**SKIN CONTACT:** Contact may cause moderate skin irritation. May cause dermatitis.

**INGESTION:** May cause gastrointestinal tract irritation, with nausea, vomiting and diarrhea.

**INHALATION:** Inhalation of high concentrations of vapors may cause irritation to the respiratory system with nausea, headache, drowsiness and/or dizziness.

**CHRONIC:** None known

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TARGET ORGANS: ACUTE: Eye, Skin, Respiratory System

CHRONIC: None known

## SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

**HAZARDS DISCLOSURE:** This product does contain known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

HAZARDOUS INGREDIENTS:	CAS #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Water	7732-18-5	>50%	HAZARD CLASSIFICATION: None listed RISK PHRASES: None Listed
2-Butoxyethanol	111-76-2	<10%	HAZARD CLASSIFICATION: [Xn] Harmful, [Xi] Irritant RISK PHRASES: R20/21/22, R36/38
Isopropyl Alcohol	67-63-0	<10%	HAZARD CLASSIFICATION: [F] Flammable, [Xi] Irritant RISK PHRASES: R11, R36, R67
Sodium Metasilicate	6834-92-0	<5%	HAZARD CLASSIFICATION: [C] corrosive, [Xi] Irritant RISK PHRASES: R34, R37
Ethanolamine	141-43-5	<2%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/37/38

Each of the other components present are less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)

**NOTE:** ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

## SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation or blurred vision continues.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention immediately.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with pre-existing skin disorders or respiratory conditions should avoid contact with this product.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

## SECTION 5 - FIRE-FIGHTING MEASURES

**FLASH POINT:**

<200°F

**AUTOIGNITION TEMPERATURE:**

Not Established

**FLAMMABLE LIMITS (in air by volume, %):**

Lower (LEL): Not Established Upper (UEL): Not Established

**FIRE EXTINGUISHING MATERIALS:**

Dry chemical, carbon dioxide, foam. Do not use forced stream as this could cause fire to spread.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None known

Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

Explosion Sensitivity to Static Discharge:

Not Sensitive

**SPECIAL FIRE-FIGHTING PROCEDURES:**

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA Rating System



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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations. Contain and recover if possible. Use non-sparking tools and equipment. Cover spilled product with sand, earth or other non-combustible absorbent material. Pickup spilled material immediately and place in appropriate containers. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

Do not discharge to sewers and surface waters. Notify authorities if entry occurs.

U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

## SECTION 7 - HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product on you. Wash thoroughly after handling this product. Use in a well-ventilated location.

**STORAGE AND HANDLING PRACTICES:** Store containers in a cool, dry location. Keep away from sources of ignition. Keep container tightly closed when not in use. Protect from physical damage.

## SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

### EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
Water	7732-18-5	Not Listed	Not Listed
2-Butoxyethanol	111-76-2	50 ppm	50 ppm
Isopropyl Alcohol	141-43-5	400 ppm	500 ppm
Sodium Metasilicate	1310-58-3	Not Listed	Not Listed
Ethanolamine	67-63-0	3 ppm	3 ppm

Currently, International exposure limits are not established for all the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapors.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Not normally required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

**EYE PROTECTION:** Wear safety glasses or chemical goggles as appropriate were splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Wear chemical resistant gloves as appropriate to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent skin contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

**PHYSICAL STATE:**

Liquid

**APPEARANCE & ODOR:**

Purple colored liquid with a characteristic odor.

**ODOR THRESHOLD (PPM):**

Mild

**VAPOR PRESSURE (mmHg):**

Not Available

**VAPOR DENSITY (AIR=1):**

Not Available

**EVAPORATION RATE (nBuAc = 1):**

Not Available

**BOILING POINT (C°):**

Not Available

**FREEZING POINT (C°):**

Not Available

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pH:	13.2
SPECIFIC GRAVITY 20°C: (WATER =1)	Not Available
SOLUBILITY IN WATER (%)	Moderately soluble
VOC:	Not Available

## SECTION 10 - STABILITY and REACTIVITY

**STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product produces oxides of carbon and other irritating and toxic fumes.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong oxidizers, acids and bases.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Contact with incompatible materials and ignition sources

## SECTION 11 - TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** Toxicity data is not available for the following components:

No LD50 Data Available

**SUSPECTED CANCER AGENT:** None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to skin respiratory system and eyes.

**SENSITIZATION OF PRODUCT:** Ingredients in this product are not considered a sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information available

## SECTION 12 - ECOLOGICAL INFORMATION

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**ENVIRONMENTAL STABILITY:** No specific data is available for this product.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS:** No specific data is available for this product.

**EFFECT OF CHEMICAL ON AQUATIC LIFE:** No evidence is currently available on this product's effects on aquatic life.

This product does contain ingredients that are considered hazardous to aquatic organisms.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

## SECTION 14 - TRANSPORTATION INFORMATION

**US DOT; IATA; IMO; ADR:**

**THIS PRODUCT IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.**

NOTE: Limited quantities of corrosive material (Class 8) in Packing Groups II and III are excepted from labeling requirements, unless the material is offered for transportation or transported by aircraft, and are excepted from the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. A limited quantity package that conforms to the provisions of this section is not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, hazardous waste, marine pollutant, or is offered for transportation and transported by aircraft or vessel. In addition, shipments of limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. Except for transportation by aircraft, the following combination packagings are authorized:

For corrosive materials in Packing Group III, inner packagings not over 5.0 L (1.3 gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging.

**PROPER SHIPPING NAME:** Corrosive liquid, n.o.s. (Contains Sodium Metasilicate)

**HAZARD CLASS NUMBER and DESCRIPTION:** Corrosive Liquid, Class 8

**UN IDENTIFICATION NUMBER:** UN1760

**PACKING GROUP:** PGIII

**DOT LABEL(S) REQUIRED:** Corrosive Liquid Class 8

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**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2012):** 154

**MARINE POLLUTANT:** None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:**

This product is classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

**TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:**

This product is classified as Dangerous Goods, per regulations of Transport Canada.

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):**

This product is classified as Dangerous Goods, by rules of IATA:

**INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:**

This product is classified as Dangerous Goods by the International Maritime Organization.

### **SECTION 15 - REGULATORY INFORMATION**

**UNITED STATES REGULATIONS**

**SARA REPORTING REQUIREMENTS:** This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows:

**SARA 313 REPORTING:** CAS# 67-63-0 is subject to reporting requirements.

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

**SARA 311/312:**

Acute Health: Yes                      Chronic Health: No                      Fire: Yes                      Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** None of the ingredients are on the California Proposition 65 lists.

**CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:**All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS). Class B Division 3 Combustible Liquid, Class D2B Materials causing other toxic effects and Class E corrosive.

**INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or Exempt
Australian Inventory of Chemical Substances (AICS):	Listed or Exempt
Korean Existing Chemicals List (ECL):	Listed or Exempt
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or Exempt
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or Exempt
Swiss Giftlist List of Toxic Substances:	Listed or Exempt
U.S. TSCA:	Listed

### **SECTION 16 - OTHER INFORMATION**

**PREPARED BY:** Paul Eigbrett

GHS MSDS Compliance PLUS

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End of SDS Sheet