OSHA Hazard Communication Standard 29 CFR 1900.1200
Prepared to GHS Rev. 4

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Bug Remover

Product Use: Concentrated Cleaning Compound

Use Restrictions: For Industrial and Professional Use Only

Manufacturer: Ultra-Look Corp.
3903 Progress Drive
Lakeland, FL 33811
Phone: 863-607-6700

Transportation Emergency: 800-535-5053 (INFOTRAC)

SECTION 2- HAZARDS IDENTIFICATION

1) GHS Classification of the substance or mixture:

Skin corrosion/irritation- Category 1A
Serious eye damage/eye irritation- Category 1
Hazardous to the aquatic environment, acute hazard - Category 3

2) Label Elements:

Signal Word: Danger

Hazard Statements:
H314- Causes severe skin burns and eye damage
H319- Causes serious eye irritation
H335- May cause respiratory irritation
H402- Harmful to aquatic life

Precautionary Statements:
P102- Keep out of reach of children
P234- Keep only in original container

P260- Do not breathe fume/mist/vapors/spray
P262- Do not get in eyes, on skin, or on clothing
P264- Wash skin thoroughly after handling
P270- Do not eat, drink or smoke when using this product.
P280- Wear chemical resistant protective gloves and splash proof eyewear

Response Statements:
P303+P353+P361+P363- IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do so. Continue Rinsing.
P304+P340+ IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 - Immediately call a POISON CENTER or doctor/physician

Storage and Disposal Statements:
P403- Store in a well-ventilated place.
P405- Store locked up.
P501- Dispose of contents/container in accordance with local/regional/national regulation.

Other Hazards:
OSHA HCS 2012- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

Chemical/Common Name	CAS #	PERCENTAGE	HAZARDOUS
Sodium metasilicate	6834-92-0	3-9%	Yes
2-Butoxyethanol	111-76-2	2-8%	Yes
Sodium Hydroxide	1310-73-2	3-9%	Yes
Ethylenediaminetetraacetic acid	60-00-4	2-8%	Yes

SECTION 4- FIRST AID MEASURES

Inhalation: If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet and obtain medical attention.
Skin: Immediately flush affected area with lots of water for at least 2 minutes. Remove contaminated clothing and wash before reuse.
Eyes: Flush immediately with large quantities of running water for at least 5 minutes. Obtain medical attention.
Ingestion: Immediately give a lot of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5-FIRE FIGHTING MEASURES

Extinguishing Media-
Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture-
Fire Hazard: Not flammable. Under conditions of fire this material may produce: Sulphur oxides.
Explosion Hazard: Product is not explosive.
Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters-
Precautionary Measures Fire: Not available

Firefighting Instructions: Keep upwind. Use water spray or fog for cooling exposed containers.
Protection During Firefighting: Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities if liquid enter sewers or waterways.
Hazardous Combustion Products: Carbon oxides (CO, CO2). On heating: release of toxic and corrosive gases/vapors sulphur oxides.
Other information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.
Environmental precautions: Avoid run off to waterways and sewers.
Methods and material for containment and cleaning up: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Ventilate area. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Collect absorbed material and place into a sealed, labeled container for proper disposal. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry. Liquid spill: neutralize with powdered limestone or sodium bicarbonate.

SECTION 7- HANDLING AND STORAGE

Precautions for safe handling:
Avoid contact with skin and eyes by wearing protective clothing and equipment. Avoid inhalation of vapour or mist. Use only with adequate ventilation.
Conditions for safe storage:
Keep container tightly closed in a dry and well-ventilated place. Store away from acids, acidic materials and oxidizers.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
2-Butoxyethanol	111-76-2	20 ppm	50 ppm
Sodium Hydroxide	1310-73-2	2 mg/m3	2 mg/m3

Exposure Controls-
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure, but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Ensure all national/local regulations are observed.
Personal Protective Equipment: Protective clothing. Gloves. Protective goggles.
Insufficient ventilation: wear respiratory protection.
Hand Protection: Impermeable protective gloves.

Eye Protection: In case of splash hazard: chemical goggles or safety glasses.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Products Description:	Clear orange liquid with characteristic odor
Solubility in Water:	Complete
Boiling Point:	99.45 °C (211 °F)
Specific Gravity (WATER=1):	1.06
Vapor Pressure (mmHg):	N/D
Vapor Density (AIR=1):	N/D
Evaporation Rate (WATER=1):	< 1.07
Flash Point (C.O.C.):	None
pH (1% w/w in water):	<13

SECTION 10- STABILITY AND REACTIVITY DATA

Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical Stability: Stable at standard temperature and pressure.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Protect from moisture.
Incompatible Materials: Avoid strong oxidizers.
Hazardous Decomposition Products: Thermal decomposition generates Corrosive vapours.

SECTION 11- TOXICOLOGICAL INFORMATION

<u>2-Butoxyethanol- (CAS 111-76-2)-</u>
Toxicity:

Acute oral toxicity- LD50 Oral: 1,414 mg/kg
Species: guinea pig
Remarks: Ingestion may cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

Acute inhalation toxicity- LC50: ~ 932 ppm
Exposure time: 4 HOURS
Species: guinea pig
Remarks: Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. May cause nausea. May cause headaches. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

Acute dermal toxicity- LD50: > 2,000 mg/kg
Species: guinea pig
Remarks: Minimal hazard by skin contact with liquid or vapor. This material may be absorbed through the skin. High dermal doses (most likely achieved from exposure to undiluted liquid) may cause weakness, headache and nausea. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

Skin corrosion/irritation- causes moderate skin irritation.

Serious eye damage/eye irritation- causes moderate eye damage.

Respiratory or skin sensitization:

Skin sensitization- this product is not expected to cause skin sensitization.

Reproductive toxicity: OECD Test No. 416: Two-Generation Reproduction Toxicity Study (Mouse, Male and Female); NOAEL: 720 mg/kg; NOAEL: 720 mg/kg; NOAEL: 720 mg/kg; Ingestion

Developmental toxicity: Rat, Male and Female; NOAEL: 100 mg/kg; NOAEL: 30 mg/kg; Ingestion

Specific target organ toxicity -single exposure: Not classified.

Specific target organ toxicity -repeated exposure: Not classified.

Aspiration hazard: Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

<u>Sodium Hydroxide- (CAS 1310-73-2)-</u>

Toxicity:

Acute oral toxicity- LD50 Oral: 300-500 mg/kg
Species: Rat
Remarks: Ingestion may cause digestive tract burns. Harmful if swallowed.

Acute inhalation toxicity- No data available

Acute dermal toxicity- LD50: 1,350 mg/kg
Species: Rabbit
Remarks: Contact with skin may cause severe skin burns and eye damage.

Skin corrosion/irritation- Causes severe skin burns

Serious eye damage/eye irritation- causes serious eye damage

Respiratory or skin sensitization:

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: this product is not expected to cause skin sensitization.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1 % are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -single exposure: Not classified.

Specific target organ toxicity -repeated exposure: Not classified.

Aspiration hazard: not an aspiration hazard.

Other chronic effects: prolonged inhalation may be harmful.

Sodium metasilicate (CAS 6834-92-0)-
Toxicity:
Acute oral toxicity- LD50 Oral: 600 mg/kg
Species: Rat

Ethylenediaminetetraacetic acid (CAS 60-00-4)-
Toxicity:
Acute oral toxicity- LD50 Oral: 1700 mg/kg
Species: Rat

SECTION 12- ECOLOGICAL INFORMATION

2-Butoxyethanol- (CAS 111-76-2)-

Ecotoxicity:
Aquatic toxicity (fish)-LC-50: 1,474 mg/l
Duration: 96 hours
Species: Oncorhynchus mykiss,

Aquatic toxicity (Aquatic Invertebrates)- EC-50: 1,550 mg/l
Duration: 48 hours
Species: water flea

Chronic hazards to the aquatic environment:
Toxicity (fish)- NOEC >100 mg/l
Duration: 21 days
Species: Zebra Fish

Toxicity (Aquatic Invertebrates)- NOEC: 100 mg/l
Duration: 21 days
Species: daphnid

Toxicity (Aquatic Plants)- EC-50: 1,840 mg/l
Duration: 72 hours
Species: Algae (Pseudokirchneriella subcapitata)

Persistence and degradability: 90.4 % (28 d) Readily biodegradable

Bioaccumulative potential: Potential to bioaccumulate is low.

Partition Coefficient n-octanol / water (log Kow) : Log Kow: 0.81 20 °C

Mobility in soil: Expected to partition to water.

Sodium Hydroxide- (CAS 1310-73-2)-

Ecotoxicity: Harmful to aquatic life with long lasting effects
Aquatic toxicity (crustacea)-EC-50: 47.13 mg/I
Duration: 48 hours
Species: water flea (Ceriodaphnia dubia)

Aquatic toxicity (fish)-LC-50: 125 mg/l
Duration: 96 hours
Species: Western mosquitofish (Gambusia affinis)

Persistence and degradability: No data available

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.

Sodium metasilicate (CAS 6834-92-0)-
Ecotoxicity:
Aquatic toxicity (fish)-LC-50: 210 mg/l
Duration: 96 hours
Species: Brachydanio rerio [semi-static]

Ethylenediaminetetraacetic acid (CAS 60-00-4)-
Ecotoxicity:
Aquatic toxicity (fish)-LC-50: 34-62 mg/l
Duration: 96 hours
Species: Lepomis macrochirus

Aquatic toxicity (Daphnia)- EC-50: 113 mg/l
Duration: 48 hours
Species: Daphnia magna

SECTION 13- DISPOSAL CONSIDERATIONS

Further information: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14- TRANSPORT INFORMATION

Transport in accordance with all federal, state and local regulations.

DOT (Department of Transportation)-
UN Number: UN 3266
UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide)
Hazard class: 8
Packing group: II

SECTION 15- REGULATORY INFORMATION

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4):
Sodium Hydroxide (CAS 1310-73-2)

SARA 304 Emergency release notification:
Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
Not listed.

SARA 302 Extremely hazardous substance:
Not listed.

SARA 311/312 Hazardous Chemical:
2-Butoxyethanol (CAS 111-76-2)- immediate (acute) health hazard ; delayed (chronic) health hazard ; fire hazard

SARA 313 (TRI reporting):
2-Butoxyethanol (CAS 111-76-2)

Other federal regulations-

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Not regulated.

US state regulations-

US - California Candidate Chemicals: Listed on initial list:
Sodium Hydroxide (CAS 1310-73-2)

US. Massachusetts RTK - Substance List:
Sodium Hydroxide (CAS 1310-73-2)
Ethylenediaminetetraacetic acid (60-00-4)

US. New Jersey Worker and Community Right-to-Know Act:
Sodium Hydroxide (CAS 1310-73-2)
Ethylenediaminetetraacetic acid (60-00-4)

US. Pennsylvania Worker and Community Right-to-Know Law:
Sodium Hydroxide (CAS 1310-73-2)
Ethylenediaminetetraacetic acid (60-00-4)

US. Rhode Island RTK
Sodium Hydroxide (CAS 1310-73-2)

US. California Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16- OTHER INFORMATION

NFPA RATING:
Health- 3
Fire Hazard- 1
Reactivity- 0

HMIS RATING:
Health- 3
Flammability- 1
Physical Hazard- 3

References: Not available
Other Special Considerations: Not available
Revised: 03/08/2021
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06/01/2018

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