# SAFETY DATA SHEET

### SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: 496995

Product Name: ZenaStick HD

 Revision Date:
 Jan 27, 2020
 Date Printed:
 Jan 27, 2020

 Version:
 2.0
 Supersedes Date:
 May 1, 2017

Manufacturer's Name: Zenex International

Address: 1 Zenex Circle Cleveland, OH, US, 44146

Emergency Phone: 1-800-535-5053 Information Phone Number: (440)-232-4155

Fax:

Product/Recommended Uses: Web Spray Adhesive

### **SECTION 2) HAZARDS IDENTIFICATION**

### Classification

Aerosols - Category 1

Gases Under Pressure - Liquefied Gas

Aspiration Hazard - Category 1

Skin Irritation - Category 2

Eye Irritation - Category 2A

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity - Repeated Exposure - Category 2

Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) - Category 3

### **Pictograms**









### Signal Word

Danger

### **Hazardous Statements - Physical**

H222 - Extremely flammable aerosol.

H280 - Contains gas under pressure; may explode if heated.

### **Hazardous Statements - Health**

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H361 - Suspected of damaging fertility or the unborn child.

H336 - May cause drowsiness or dizziness.

496995 Page 1 of 8

### **Precautionary Statements - General**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

### **Precautionary Statements - Prevention**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe mist, vapors or spray.
- P271 Use only outdoors or in a well-ventilated area.

### **Precautionary Statements - Response**

- P314 Get medical attention if you feel unwell.
- P308 + P313 IF exposed or concerned: Get medical attention.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P331 Do NOT induce vomiting.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

#### Continue rinsing.

- P337 + P313 If eye irritation persists: Get medical attention.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P332 + P313 If skin irritation occurs: Get medical attention.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor if you feel unwell.

### **Precautionary Statements - Storage**

- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
- P403 + P405 Store in a well-ventilated place. Store locked up.

### **Precautionary Statements - Disposal**

P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.

#### **SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS** CAS **Chemical Name** % By Weight 0000110-54-3 **HEXANE** 21% - 34% 0000067-64-1 **ACETONE** 19% - 31% 0068476-86-8 Petroleum gases, liquefied, sweetened 17% - 29% Hydrocarbon Resin 4% - 10% Proprietary 0003710-84-7 DIETHYL HYDROXYLAMINE 0.0% - 0.2% 0000128-37-0 **BUTYLATED HYDROXYTOLUENE** Trace

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

496995 Page 2 of 8

#### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/lf you feel unwell/lf concerned: Call a POISON CONTROL CENTER/doctor

Eliminate all ignition sources if safe to do so.

### **Eye Contact**

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

#### **Skin Contact**

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation persists: Get medical advice/attention. Wash contaminated clothing before re-use

IF exposed or concerned: Get medical advice/attention.

### Ingestion

Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

### Most Important Symptoms/Effects, Acute and Delayed

No data available.

### Indication of Immediate Medical Attention and Special Treatment Needed

No data available.

### **SECTION 5) FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Do not direct a solid stream of water or foam into hot, burning pools this may results in frothing and increase fire intensity.

### **Unsuitable Extinguishing Media**

No data available.

### Specific Hazards in Case of Fire

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Product is highly flammable and forms explosive mixtures with air, oxygen, and all oxidizing agents. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

### **Fire-Fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Do not direct a solid stream of water or foam into burning material; this may cause spattering and spread the fire.

### **Special Protective Actions**

Wear goggles and use a self-contained breathing apparatus. If water is used, fog nozzles are preferred.

### **SECTION 6) ACCIDENTAL RELEASE MEASURES**

### **Emergency Procedure**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

### **Recommended Equipment**

See section 8 for specifics on protective personal equipment (PPE).

496995 Page 3 of 8

Personal Precautions Item 1069

Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

#### **Environmental Precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### Methods and Materials for Containment and Cleaning up

Absorb liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

### **SECTION 7) HANDLING AND STORAGE**

#### General

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

### **Ventilation Requirements**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

### Storage Room Requirements

Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them.

Store at temperatures below 120°F.

## **SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Eye Protection**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

#### **Skin Protection**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

### **Respiratory Protection**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed.

### **Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

| Chemical<br>Name                               | OSHA TWA<br>(mg/m3) | OSHA TWA<br>(ppm) | OSHA STEL<br>(mg/m3) | OSHA<br>Carcinogen | OSHA Skin<br>designation | OSHA Tables<br>(Z1, Z2, Z3) | ACGIH TWA (mg/m3) | ACGIH TWA (ppm) |
|--|---------------------|-------------------|----------------------|--------------------|--------------------------|-----------------------------|-------------------|-----------------|
| ACETONE  | 2400                | 1000              |                      |                    |                          | 1                           |                   | 250             |
| BUTYLATED<br>HYDROXYTOL<br>UENE                |                     |                   |                      |                    |                          |                             | 2 (IFV)           |                 |
| DIETHYL<br>HYDROXYLAM<br>INE                   |                     |                   |                      |                    |                          |                             |                   | 2               |
| HEXANE   | 1800                | 500               |                      |                    |                          | 1                           |                   | 50              |
| Petroleum<br>gases,<br>liquefied,<br>sweetened | 2000                | 500               |                      |                    |                          | 1                           |                   |                 |

496995 Page 4 of 8

|  | _                | _                  |                  |                     |   |                    |                   | terri 1005      |
|--|------------------|--------------------|------------------|---------------------|---|--------------------|-------------------|-----------------|
| Chemical<br>Name                               | NIOSH STEL (ppm) | ACGIH STEL (mg/m3) | ACGIH STEL (ppm) | ACGIH<br>Carcinogen | ACGIH<br>TLV Basis                                  | ACGIH<br>Notations | NIOSH TWA (mg/m3) | NIOSH TWA (ppm) |
| ACETONE  |                  |                    | 500              | A4                  | URT & eye irr;<br>CNS impair                        | A4; BEI            | 590               | 250             |
| BUTYLATED<br>HYDROXYTOL<br>UENE                |                  |                    |                  | A4                  | URT irr   | A4                 | 10                |                 |
| DIETHYL<br>HYDROXYLAM<br>INE                   |                  |                    |                  |                     | URT irr   |                    |                   |                 |
| HEXANE   |                  |                    |                  |                     | CNS impair;<br>peripheral<br>neuropathy;<br>eye irr | Skin; BEI          | 180               | 50              |
| Petroleum<br>gases,<br>liquefied,<br>sweetened |                  |                    |                  |                     |   |                    |                   |                 |

| Chemical<br>Name                               | NIOSH STEL<br>(mg/m3) | OSHA STEL<br>(ppm) | NIOSH<br>Carcinogen |
|--|-----------------------|--------------------|---------------------|
| ACETONE  |                       |                    |                     |
| BUTYLATED<br>HYDROXYTOL<br>UENE                |                       |                    |                     |
| DIETHYL<br>HYDROXYLAM<br>INE                   |                       |                    |                     |
| HEXANE   |                       |                    |                     |
| Petroleum<br>gases,<br>liquefied,<br>sweetened |                       |                    |                     |

(C) - Ceiling limit, (IFV) - Inhalable fraction and vapor, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, URT - Upper respiratory tract

### **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

### **Physical and Chemical Properties**

 Density
 6.67 lb/gal

 Density VOC
 1.94 lb/gal

 % VOC
 29.13%

Appearance Orange
Odor Threshold Solvent
Odor Description N.A.

PH N.A.
Water Solubility N.A.

Flammability Flash point below 73°F/23°C

Vapor Pressure N.A. Flash Point N.A. Viscosity N.A. Lower Explosion Level N.A. Upper Explosion Level N.A. Vapor Density N.A. Melting Point N.A. Freezing Point N.A. Low Boiling Point N.A.

496995 Page 5 of 8

High Boiling Point N.A.

Decomposition Pt N.A.

Auto Ignition Temp N.A.

Evaporation Rate Slower than ether

### **SECTION 10) STABILITY AND REACTIVITY**

### **Stability**

The product is stable under normal storage and handling conditions.

#### **Conditions to Avoid**

Dropping containers may cause bursting.

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

### **Incompatible Materials**

Avoid strong oxidizers, reducers, acids, and alkalis.

### **Hazardous Reactions/Polymerization**

Will not occur.

### **Hazardous Decomposition Products**

No data available.

### **SECTION 11) TOXICOLOGICAL INFORMATION**

### Skin Corrosion/Irritation

Causes skin irritation.

### Likely Route of Exposure

Inhalation, ingestion, skin absorption.

### Serious Eye Damage/Irritation

Causes serious eye irritation.

Eye contact may lead to permanent damage if not treated promptly.

### Carcinogenicity

No data available.

### **Germ Cell Mutagenicity**

No data available.

### **Reproductive Toxicity**

Suspected of damaging fertility or the unborn child.

### **Respiratory/Skin Sensitization**

No data available.

### **Specific Target Organ Toxicity - Single Exposure**

May cause drowsiness or dizziness.

May affect the kidneys and liver.

### **Specific Target Organ Toxicity - Repeated Exposure**

May cause damage to organs through prolonged or repeated exposure.

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system and peripheral nervous system. This may result in polyneuropathy.

### **Aspiration Hazard**

May be fatal if swallowed and enters airways

ASPIRATION causes severe lung irritation, coughing, pulmonary edema; excitement followed by depression.

### **Acute Toxicity**

If inhaled, may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heart beats.

496995 Page 6 of 8

0000067-64-1 ACETONE Item 1069

LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m3 (4-hour exposure) (29) LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m3 (4-hour exposure) (29)

LD50 (oral, female rat): 5800 mg/kg (24)

LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31) LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)

LD50 (oral, mouse): 3000 mg/kg (32,unconfirmed)

LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg) (30)

#### 0000110-54-3 HEXANE

LC50 (male rat): 38500 ppm (4-hour exposure); cited as 77000 ppm (271040 mg/m3) (1-hour exposure) (15)

LC50 (rat): 48000 ppm (4-hour exposure) (16)

LC50 (rat): 73680 ppm (260480 mg/m3) (4-hour exposure) (n-hexane and isomers) (1,3)

LD50 (oral, 14-day old rat): 15840 mg/kg (3) LD50 (oral, young rat): 32340 mg/kg (3) LD50 (oral, adult rat): 28700 mg/kg (3,16)

### **Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### **Potential Health Effects - Miscellaneous**

### 0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

### **SECTION 12) ECOLOGICAL INFORMATION**

#### **Toxicity**

Toxic to aquatic life with long lasting effects.

### Persistence and Degradability

No data available.

#### **Bio-accumulative Potential**

No data available.

**Mobility in Soil** 

No data available.

### **Other Adverse Effects**

No data available.

### **SECTION 13) DISPOSAL CONSIDERATIONS**

### **Waste Disposal**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

### **SECTION 14) Transport Information**

|                              | IATA Information    | IMDG Information | U.S. DOT<br>Information |
|------------------------------|---------------------|------------------|-------------------------|
| UN number:                   | UN1950              | UN1950           | UN1950                  |
| Proper shipping name:        | Aerosols, flammable | Aerosols         | Aerosols                |
| Hazard class:                | 2.1                 | 2.1              | 2.1                     |
| Packaging group:             | N.A.                | N.A.             | N.A.                    |
| Note / Special<br>Provision: | LTD QTY             | LTD QTY          | LTD QTY                 |

496995 Page 7 of 8

### **SECTION 15) REGULATORY INFORMATION**

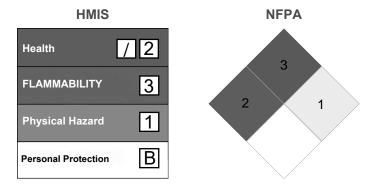
Item 1069

| CAS          | Chemical Name                         | % By Weight | Regulation List  |
|--------------|---------------------------------------|-------------|--|
| 0000110-54-3 | HEXANE                                | 21% - 34%   | SARA313, CERCLA, HAPS,<br>SARA312, VOC, TSCA, ACGIH,<br>California Proposition 65 Male, OSHA |
| 0000067-64-1 | ACETONE                               | 19% - 31%   | CERCLA, SARA312, TSCA, RCRA, ACGIH, OSHA   |
| 0068476-86-8 | Petroleum gases, liquefied, sweetened | 17% - 29%   | SARA312, TSCA, OSHA  |
| 0003710-84-7 | DIETHYL HYDROXYLAMINE                 | 0.0% - 0.2% | SARA312, VOC, TSCA, ACGIH  |
| 0000128-37-0 | BUTYLATED HYDROXYTOLUENE              | Trace       | SARA312, VOC, TSCA, ACGIH  |

### **SECTION 16) OTHER INFORMATION**

### Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



#### (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### **DISCLAIMER**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

496995 Page 8 of 8