BEER

**Safety Data Sheet**

Version 1.0 Revision Date: June 4, 2015

**Section 1: Identification of the substance/mixture and the supplier**

**1.1 Product identifier:**

Product Name: **Beer (Ethyl Alcohol) (a.k.a.: Ale, Stout, Malt Liquor)**

 Brand: Various Brands

 CAS Number: 64-17-5

**1.2 Identified uses of the substance or mixture and uses advised against:**

 Human consumption

**1.3 Supplier of this Safety Data Sheet:**

 **{Company Name}**

 **{Address}**

 **{City, State Zip Code}**

Telephone: **{Phone Number}**

Fax  **{Fax Number}**

**1.4 Emergency Phone Number:**

 **{Phone Number}**

**Section 2: Hazards identification**

**2.1 Classification of the substance or mixture:**

 **H303** May be harmful if swallowed

 **H340** May harm the unborn child if consumed at more than a moderate level

 **H373** May cause damage to the liver through prolonged and/or repeated consumption

 **H402** Harmful to aquatic life

**2.2 Non-Flammable**

**2.3 Label Elements:**

  

 **Pictograms:**

 **Signal Word: Warning**

 **Hazard Statements:**

 **H303** May be harmful if swallowed

 **H340** May harm the unborn child if consumed at more than a moderate level

 **H373** May cause damage to the liver through prolonged and/or repeated consumption

 **H402** Harmful to aquatic life

 **Precautionary Statement:** Do not consume in large quantities.

**Section 3: Composition/Information in ingredients**

**3.1 Hazardous Ingredients:**

**CAS Number: Hazardous Component: Percentage:**

**64-17-5 Ethyl Alcohol 4% - 11%**

**LD50 LC50 Mixture:**

**Oral LD50 (Rat) IS 7,060 mg/kg (Ethanol)**

**Section 4: First Aid measures**

**4.1 Description of First Aid Measures:**

 **Signs And Symptoms Of Overexposure:**

Concentrations below 1,000 ppm usually produce no signs of intoxication. Exposure to concentrations over 1,000 ppm may cause headache, irritation of the eyes, nose, and throat, and if continued for an hour, drowsiness and lassitude, loss of appetite and inability to concentrate.

 **General Advice:** In case of consumption contact a physician

 **If Inhaled:** Not a likely means of exposure

 **In Case of Skin Contact:** Wash off with soap and water. No adverse effects should be noted

 **In Case of Eye Contact:** Rinse thoroughly with plenty of water

 **If Swallowed:**  A large amount would have to be ingested to cause any problem. Consult a physician

**Section 5: Firefighting measures**

**5.1 Extinguishing media:**

None needed - beer is a water based liquid

**5.2 Special hazard arising from the substance or mixture:**

 None expected

**5.3** **Non-Flammable** - this is a water based liquid

**5.4 Further information:**

 None

**Section 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

 None needed under normal use.

**6.2 Environmental precautions:**

Prevent further leakage, or spillage, if safe to do so. Do not let product enter sewer drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up:**

 Contain spillage, collect the liquid and pump it into a container for proper disposal according to local regulations.

**6.4 Reference to other sections:**

 For disposal see Section 13

**Section 7: Handling and storage**

**7.1 Precautions for safe handling:**

 No special precautions needed

**7.2 Conditions for safe storage - including any incompatibilities:**

 Keep container tightly closed in a cool, dry and well ventilated place. Handle and store in specially designed containers. No incompatibilities noted.

**7.3 Specific end use(s):**

 As a consumable alcoholic liquid - beer

**Section 8: Exposure controls/personal protection**

**8.1 Appropriate engineering controls:**

 Handle in accordance with good industrial hygiene and safety practices. Wash hands

 before breaks and at the end of the workday

**8.2 Personal Protective equipment:**

 **Eye/Face protection:** Safety glasses

 **Hand protection:** Liquid resistant gloves

 **Respiratory Protection:** None needed under normal use

**Section 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties:**

 a) Appearance Yellow to dark brown

 b) Odor Floral, herbal, bready, yeasty smell

 c) Odor Threshold No data available

 d) pH 3.9 to 4.6

 e) Melting point/freezing 26 to 28°F

 point

 f) Initial boiling point and 203°F to 212°F (Very similar to water)

 boiling range

 g) Flash point NA

 h) Evaporation rate No data available

 i) Flammability (Solid/Gas/ Non-Flammable, Liquid

 Liquid)

 j) Upper/lower flammability Upper Explosion Limit: NA

 or explosive limits Lower Explosion Limit: NA

 k) Vapor Pressure NA

 l) Vapor density NA

 m) Water solubility Completely miscible

 n) Auto-ignition Temperature NA

 o) Decomposition Temperature NA

 p) Viscosity 1.8 CentiStokes (cSt) (Very similar to water)

 q) Explosive properties NA

 r) Oxidizing properties NA

**9.2 Other Safety Information: None**

**Section 10: Stability and reactivity**

**10.1 Reactivity:**

This material may slowly react with oxidizers

**10.2 Chemical stability:**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reaction:**

None identified

**10.4 Conditions to avoid:**

 Oxidizers can end up turning the beer into Malt Vinegar.

**10.5 Incompatible materials:**

 Limited Oxidizers

**10.6 Hazardous decomposition products:**

 None identified

**Section 11: Toxicological information**

 **Acute Toxicity:** The following data is for close to pure Ethanol

 **Serious eye damage/eye irritation:** eye-rabbit 79 mg

 eye-rabbit 100 mg/24H MOD

 eye-rabbit 100 mg/4S rns MOD

 **Respiratory or skin sensitization:** skin-rabbit 400 mg open MLD

 skin-rabbit 500 mg/24H SEV

 **Germ cell mutagenicity:** No data available

 **Carcinogenicity:**

 **Tumorigenic**

 **Data:**  TDLo: orl-mus 320 mg/kg/50W-I TD : orl-mus 400 gm/kg/57W-I TDLo: rec-mus 120 gm/kg/18W-I

 **Review:** IARC Cancer Review: Animal Inadequate Evidence

 IARC human carcinogen (Group 1)

 **Reproductive toxicity:** No data available

 **Specific target organ toxicity - single** No data available

 **exposure:**

 **Specific target organ toxicity - repeated** No data available

 **exposures:**

 **ORAL LD50:** Mouse – 3450 mg/kg, Savchenkov 1967 Rat – 7060 mg/kg, Wiberg et al. 1970

 **INHALATION LC50:** Rat – 20,000 ppm, NPIRI 1974

 Mouse – 20,363 ppm,

 **Aspiration hazard:** No data available

**Human data:** It was reported in a clinical study that concentrations greater than 20,900 ppm were intolerably irritating and 15,000 ppm caused continuous lacrimation and coughing while concentrations between 5,200 and 10,400 ppm allowed work to be carried on, but with a certain amount of discomfort [Lester and Greenberg 1951]. In this same study, it was determined that 62% of the ethyl alcohol inhaled was absorbed [Lester and Greenberg 1951].

**Section 12: Ecological information**

**12.1 Toxicity:**

 **Toxicity to fish:**

No data available - avoid any release to the environment

 **Toxicity to other aquatic invertebrates:**

No data available - avoid any release to the environment

**12.2 Persistence and Degradability**

 **Biodegradability:** No data available

 **Bioaccumulative potential:** No data available

 **Mobility in soil:** No data available

 **Results of testing:** No data available

 **Other adverse effects:** No data available

**Section 13: Disposal considerations**

**13.1 Waste treatment methods:**

Dispose of according to federal, state and local regulations. Do not release into the

 environment.

**Section 14: Transportation information**

**14.1 UN Number UN proper shipping name:**

 ADR/RID: 1MDG ADR/RID: T3 UN Portable Tank

**14.2 Transportation hazard class(es) Packaging Group**

ADR/RID: TC Impact Approved ADR/RID: AAR600

Aircraft not permitted for transport.

**14.3 Environmental hazards:**

ADR/RID: TC Impact Approved

**14.4 Special precautions for user:**

 No data available

**Section 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture:**

 **CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR Part 302.4):** This product contains no substances listed.

 **SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355):** This product is not regulated under Section 302 of SARA and 40 CFR Part 355

 **SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370):** This product is not defined as hazardous by OSHA under 29 CFR Part 1910.1200 (d)

 **SARA TITLE III SECTION 313 (40 CFR Part 372):** This product contains no substances listed.

**15.2 Chemical Safety Assessment**

 A chemical safety assessment was not completed for this product.

**Section 16: Other information**

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. {Enter Company Name} shall not be held liable for any damage resulting from handling, contact with the above product nor as the result of improper disposal/release to the environment.