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MATERIAL SAFETY DATA SHEET FOR RAGA

Report No. TT 2013319

Report to:

Agri Deshiya (Pvt) Ltd.
504 C / 2, Vidyala Mawatha
New Town
Ratnapura
Sri Lanka

Herbal Technology Section

2022.01.18

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Handwritten signature/initials

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MATERIAL SAFETY DATA SHEET FOR RAGA

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Report to : Agri Deshiya (Pvt) Ltd.
504 C / 2, Vidyala Mawatha
New Town
Ratnapura
Sri Lanka.

Request : MSDS for Raga (5.5 %)
Reference client's request of 2022.01.11

Sample ID : Raga

Label : Raga
Sparkling Kithul Raa
Of Ceylon



MATERIAL SAFETY DATA SHEET (MSDS)

RAGA

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1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: Raga
Product Use: Used as an alcoholic Beverage
Company Name: Agri Deshiya (Pvt) Ltd.
Company Address: 504 C / 2, Vidyala Mawatha
New Town
Ratnapura
Sri Lanka
Telephone: +94- 45-2228222
Fax: +94- 11-2465901

2. COMPOSITION / INGREDIENT INFORMATION

This product is a mixture of the substances listed below with the addition of nonhazardous materials.

Ingredients: Ethanol from Fermented phloem sap from Kitul (*Caryota urens*)
CAS No. : 64 – 17 -5
Percentage: 5.5% Vol.
Hazard Symbol: None

3. HAZARDS IDENTIFICATION

Information pertaining to particular dangers for man and environment.

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

Eye: Produces irritation. Splashes may cause temporary pain and blurred vision.
Ingestion: May cause headaches, gastritis, intoxication, blindness and, in acute cases, death.



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- Inhalation:** Harmful if inhaled. Exposure may cause irritation to the mucous membranes of the upper respiratory tract. Prolonged exposures to high concentrations may cause drowsiness, loss of appetite and inability to concentrate.
- Skin:** Causes skin irritation, cracking or flaking due to dehydration and defatting action.

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.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

None needed - Raga 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

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

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.



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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

7. HANDLING AND STORAGE

Handling: Protect against physical damage. Ensure good ventilation / exhaustion and do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched. No smoking.

Storage: Keep container tightly closed, away from heat, sparks, flame and incompatible material. Storage area should be cool and dry.

Other Precautions: Keep respiratory protective device available.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Components with limit values that require monitoring: Ethanol (67-17-5)

OSHA-PEL: 1000 ppm TWA, (Ethanol) **TLV:** 1000 ppm (Ethanol)

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

9. PHYSICAL AND CHEMICAL PROPERTIES

a)	Appearance	Light Yellow
b)	Odor	Floral, herbal, bready, yeasty smell
c)	Odor Threshold	No data available
d)	pH	3.9 to 4.6
e)	Melting point/freezing point	<u>0°C</u>
f)	Initial boiling point and boiling range	<u>100°C</u> (Very similar to water)
g)	Flash point	NA
h)	Evaporation rate	No data available



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i)	Flammability (Solid/Gas/ Liquid)	Non-Flammable, Liquid
j)	Upper/lower flammability or explosive limits	Upper Explosion Limit: NA 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)
q)	Explosive properties	NA
r)	Oxidizing properties	NA

10. STABILITY AND REACTIVITY

Stability: This material is stable under normal conditions.

Incompatibility (Materials to Avoid): Incompatible with oxidizing agents,

Conditions to Avoid: Avoid heat, sources of ignition, moisture, shock, and friction.

Hazardous Decomposition or Byproducts: Carbon dioxide and Carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will Not Occur

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)

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Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposures: No data available

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].

12. ECOLOGICAL INFORMATION

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

Persistence and Degradability

Biodegradability:

Biodegradable

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Results of testing:

No data available

Other adverse effects:

No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations.

Do not release into the environment.

Contact a licensed professional waste disposal service to dispose of this material if questions arise



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14. TRANSPORT INFORMATION

DOT Regulations:

Not Classified as Dangerous Goods by the criteria for transport by road and rail. **NON-DANGEROUS GOODS.**

Land Transport ADR/RID (cross-border):

Not Classified as Dangerous Goods by the criteria for transport by road and rail. **NON-DANGEROUS GOODS.**

Maritime Transport IMDG:

Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (MDG Code) for transport by sea. **NON-DANGEROUS GOODS.**

Air Transport ICAO-TI and IATA-DGR:

Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. **NON-DANGEROUS GOODS**

15. REGULATORY INFORMATION

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.



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16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

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