Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

PSI LABS

Date: 28/08/2018
Version: 1

SAFETY DATA SHEET

Harambae 10 mg, 20 mg

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name	:	Harambae 10 mg/mL, 20 mg/mL
Product Code	:	Not available.
Product Description	:	Not available.
Product Type	:	Liquid.
Other means of Identification	:	Not available.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses	:	Not available.

1.3 Details of the Supplier of the Safety Data Sheet

Supplier's Details	:	Pacific Smoke International Inc. Unit 2 – 81 Granton Drive Richmond Hill, Ontario Canada, L4B 2N5 Tel: 647-557-3308 Fax: 1-855-890-7022 Email: officeadmin@pacificsmoke.com Web Site: www.pacificsmoke.com

1.4 Emergency Telephone Number

Emergency Telephone Number	:	289-217-4125
(with hours of operation)	:	24 hours, 7 days a week

Section 2. Hazard Identification

2.1 Classification of the Substance or Mixture

Product Definition : Mixture

Classification according to Regulation EC) No. 1272/2008 [CLP/GHS]

Not classified.

This product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label Elements

Signal Word : No signal word.

Hazard Statements : No known significant effects or critical hazards.

Precautionary Statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental Label Elements : Contains Oils, grapefruit and grapefruit extract. May produce an allergic reaction. Safety data sheet available on request.

Annex XVII – Restrictions on the Manufacture, Placing on the Market and Use of certain Dangerous Substances, Mixtures and Articles : Not applicable.

Special Packaging Requirements

Containers to be Fitted with Child-Resistant Fastenings : Not applicable.

Tactile Warning of Danger : Not applicable.

2.3 Other Hazards

Other Hazards which do not result in Classification : None known.

Section 3. Composition/Information on Ingredients

3.2 Substance/Mixture : Mixture.

Ingredient Name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥ 50 – ≤ 75	Not classified.	[2]
Propane-1,2-diol	EC: 200-338-0 CAS: 57-55-6	≥ 10 – ≤ 25	Not classified.	[2]
Ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥ 1 – ≤ 3	Flam. Liq. 2, H225	[2]
Nicotine (ISO)	EC: 200-193-3 CAS: 54-11-5 Index: 614-001-00-4	≥ 1 – ≤ 2.4	Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Chronic 2, H411 **See Section 16 for the full text of the H statements declared above**	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs, or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First Aid Measures

4.1 Description of First Aid Measures

Eye Contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin Contact : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of First-Aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most Important Symptoms and Effects, both Acute and Delayed

Potential Acute Health Effects

Eye Contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin Contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-Exposure Signs/Symptoms

Eye Contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin Contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed (If Necessary)

Notes to Physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific Treatments : No specific treatment.

Section 5. Fire-Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media : None known.

5.2 Special Hazards Arising from the Substance or Mixture

Hazards from the Substance or Mixture : No specific fire or explosion hazard.

Hazardous Combustion Products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for Firefighters

Special Protective Actions for Fire-Fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire-Fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For Emergency Responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

6.2 Environmental Precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and Materials for Containment and Cleaning Up

Small Spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to Other Sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

Section 7. Handling and Storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for Safe Handling

Protective Measures : Put on appropriate personal protective equipment (see Section 8).

Advice on General Occupational Hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for Safe Storage, including and Incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific End Use(s)

Recommendations : Not available.

Industrial Sector Specific Solutions : Not available.

Section 8. Exposure Controls/Personal Protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control Parameters

Occupational Exposure Limits

Ingredient Name	Exposure Limit Values
Glycerol	**EH40/2005 WELs (United Kingdom (UK), 12/2011).** TWA: 10 mg/m^3 8 hours. Form: Mist
Propane-1,2-diol	**EH40/2005 WELs (United Kingdom (UK), 12/2011).** TWA: 10 mg/m^3 8 hours. Form: Particulate TWA: 474 mg/m^3 8 hours. Form: Sum of Vapour and Particulates TWA: 150 ppm 8 hours. Form: Sum of Vapour and Particulates
Ethanol	**EH40/2005 WELs (United Kingdom (UK), 12/2011).** TWA: 1000 ppm 8 hours. TWA: 1920 mg/m^3 8 hours.
Nicotine (ISO)	**EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.** STEL: 1.5 mg/m^3 15 minutes. TWA: 0.5 mg/m^3 8 hours.

Recommended Monitoring Procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of

procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure Controls

Hygiene Measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual Protection Measures

Hygiene Measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin Protection

Hand Protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body Protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental Exposure Controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance

Physical State	:	Liquid.
Color	:	Not available.
Odour	:	Not available.
Odour Threshold	:	Not available.
pH	:	Not available.
Melting/Freezing Point	:	Not available.
Initial Boiling Point and Boiling Range	:	Not available.
Flash Point	:	Not available.
Evaporation Rate	:	Not available.
Flammability (Solid, Gas)	:	Not available.
Lower and Upper Flammability or Explosive Limits	:	Not available.
Vapor Pressure	:	Not available.
Vapor Density	:	Not available.
Relative Density	:	Not available.
Solubility(ies)	:	Not available.
Partition Coefficient: n-octanol/water	:	Not available.
Auto-Ignition Temperature	:	Not available.
Decomposition Temperature	:	Not available.
Viscosity	:	Not available.
Explosive Properties	:	Not available.
Oxidising Properites	:	Not available.

Flow Time (ISO 2431) : Not available.

9.2 Other Information

Solubility in Water : Not available.

Section 10. Stability and Reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical Stability : The product is stable.

10.3 Possibility of Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid : No specific data.

10.5 Incompatible Materials : Reactive or incompatible with the following materials: oxidizing materials.

10.6 Hazardous Decomposition Products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

Ingredient Name	Result	Species	Dose	Exposure
Nicotine (ISO)	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	50 mg/kg 140 mg/kg 50 mg/kg	– – –

Acute Toxicity Estimates

Route	ATE Value
Oral Dermal Inhalation (Vapours)	2431.6 mg/kg 2491.3 mg/kg 2666.7 mg/L

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive Toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific Target Organ Toxicity (Singe Exposure)

There is no data available.

Specific Target Organ Toxicity (Repeated Exposure)

There is no data available.

Aspiration Hazard

There is no data available.

Information on the likely Routes of Exposure	:	Dermal contact. Eye contact, Inhalation, Ingestion.

Potential Acute Health Effects

Eye Contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin Contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics

Eye Contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin Contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

Potential Immediate Effects	:	No known significant effects or critical hazards.
Potential Delayed Effects	:	No known significant effects or critical hazards.

Long Term Exposure

Potential Immediate Effects : No known significant effects or critical hazards.

Potential Delayed Effects : No known significant effects or critical hazards.

Potential Chronic Health Effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental Effects : No known significant effects or critical hazards.

Fertility Effects : No known significant effects or critical hazards.

Other Information : Not available.

Section 12. Ecological Information

12.1 Toxicity

Ingredient Name	Result	Species	Exposure
Nicotine (ISO)	Acute EC50 242 µg/L Fresh Water	Daphnia – Daphnia pulex – Neonate	48 hours
	Acute EC50 4000 µg/L Fresh Water	Fish – Oncorhynchus mykiss – Fry	96 hours
	Chronic NOEC 2900 µg/L Fresh Water	Fish – Oncorhynchus mykiss – Newly or recently hatched	60 days

12.2 Persistence and Degradability

There is no data available.

12.3 Bioaccumulative Potential

Ingredient Name	$LogP_{ow}$	BCF	Potential
Nicotine (ISO)	1.17	–	Low

12.4 Mobility in Soil

Soil/Water Partition Coefficient (K_{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB Assessment

PBT : Not available.

vPvB : Not available.

12.6 Other Adverse Effects : No known significant effects or critical hazards.

Section 13. Disposal Considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste Treatment Methods

Product

Methods of Disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous Waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of Disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special Precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transportation Information

	DOT Classification	TDG Classification	IMDG	IATA
14.1 UN Number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.2 UN Proper Shipping Name	–	–	–	–
14.3 Transport Hazard Class(es)	–	–	–	–
14.4 Packing Group	–	–	–	–
14.5 Environmental Hazards	No	No	No	No

14.6 Special Precautions for User : **Transport Within User's Premises**: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

EU Regulation (EC) No. 1907/2006 (REACH)

ANNEX XIV – List of Substances subject to Authorisation

Annex XIV

None of the components are listed.

Substances of Very High Concern

None of the components are listed.

Annex XVII – Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Mixtures and Articles : Not applicable.

Other EU Regulations

Ozone Depleting Substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Ingredient Name	Annex	Status
Nicotine (ISO)	Annex I – Part 1 Annex I – Part 2	Listed Listed

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

Section 16. Other Information

Abbreviations and Acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure Used to Derive the Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full Text of Abbreviated H Statements

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H411	Toxic to aquatic life with long lasting effects.

Full Text of Classifications [CLP/GHS]

Acute Tox. 1, H310	ACUTE TOXICITY (Dermal) – Category 1
Acute Tox. 2, H300	ACUTE TOXICITY (Oral) – Category 2
Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD – Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS – Category 2

History

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Prepared By : Pacific Smoke International Inc.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, any 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.