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MATERIAL SAFETY DATA SHEET

MACE

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name	:	**MACE**
Company Name	:	BOS Natural Flavors (P) LTD.
Company Address	:	Kinfra Park, Nellad, Muvattupuzha,
Date Issued	:	21/08/2014
Emergency Telephone Number	:	Lab +91 8943582582

2. COMPOSITION/INGREDIENT INFORMATION

Identity	:	**MACE**
Components	:	Raw Material
CAS No	:	NA
Hazardous components	:	

3. HAZARDS IDENTIFICATION

Routes of Entry Eyes Skin Inhalation Ingestion

In case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

- Inflammation of the eye is characterized by redness, watering, and itching.
- Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering ..

4. FIRST AID MEASURES

Eyes	:	Remove contact lenses if applicable. Flush with plenty of water or eye wash solution for 15 minutes.
Skin	:	Remove contaminated clothing. Wash with soap and flush with plenty of water. Cover affected skin with an emollient.
Ingestion	:	Drink water or milk to dilute and contact poison control center or seek medical attention immediately.
Inhalation	:	Avoid gross inhalation of fumes. Remove to fresh air
Serious Inhalation	:	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.
Note	:	If irritation persists seek medical attention and show the label of the container

5. FIRE FIGHITING MEASURES

Flammability	:	Non Flammable

Flash Point (Method Used)	:	>100Deg Close Cup
Extinguishing Media	:	Dry Chemical, Carbon Dioxide, Foam
Note	:	Do not use water jet.
Special Firefighting Procedures	:	Fire fighters should wear positive pressure self-contained breathing apparatus. Cool containers exposed to flame with water spray. Spray extinguishing media directly into base of fire.
Unusual Fire & Explosion Hazards	:	None
Hazardous Decomposition Materials	:	CO, CO2, smoke and unidentified organic compounds may be formed during combustion.

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Protection	:	Wear a NOISH approved respirator. Avoid ingestion or contact with skin and eyes. Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes. Wear eye protection, gloves and aprons. Ventilate area well.
Methods for Cleaning Up	:	Eliminate all sources of ignition Ventilate area Prevent liquid from entering sewers Small spills can be wiped up with paper rags (place in closed metal waste container) Large spills can be absorbed onto non-flammable absorbent. Wash area with soap and water.

7. HANDLING AND STORAGE

Handling

Safe Handling	:	Avoid ingestion or contact with skin and eyes. Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes.
Storage		Wear eye protection, gloves and aprons. Ventilate area well.
Requirements for Storage Areas and Containers	:	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Threshold Limit Value	:	Not established
OSHA Permissible Limit	:	Not established
Engineering Controls	:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Work Practice Controls	:	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

(3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

Respiratory	:	Avoid casual breathing of vapors
Ventilation	:	Local, mechanical exhaust in recommended
Eye	:	OSHA approved safety glasses
Skin	:	Wear chemical resistant gloves and clothing to avoid skin contact

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Raw Material
Color	:	Brown
Odor	:	Characteristic
Vapor Pressure (mm Hg.)	:	Not available
Boiling Point	:	Not available
Melting Point	:	N/A
Specific Gravity (H2O = 1)	:	N/A
Refractive Index	:	N/A
Solubility in Water	:	Insoluble in Water

10. STABILITY AND REACTIVITY

Stability	:	This material is stable under normal conditions.
Incompatibility (Materials to Avoid)	:	Avoid contact with strong oxidizing agents and avoid hot work and sources of ignition on or near empty containers.
Conditions to Avoid	:	Avoid contact with sparks, flame and heat.
Byproducts	:	Hazardous Decomposition or CO, CO2, smoke and unidentified organic compounds may be formed during combustion.
Hazardous Polymerization	:	Will Not Occur

11. TOXICOLOGICAL INFORMATION

CAUTION	:	Liquid may be irritating to eyes, skin, mucous membranes.
Toxicity	:	N/A
Chronic Effects on Humans	:	Not available

12. ECOLOGICAL INFORMATION

No information. This is a complex mixture there for which no environmental criteria available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	:	There should be no product residues.Dispose according to local, state and Federal regulations.
Precautions	:	Prevent surface contamination of soil, ground and surface water.

14. TRANSPORT INFORMATION

DOT Hazard Classification	:	NA
Identification	:	NA

15. REGULATORY INFORMATION

R phrases

R38	:	irritating to skin
R36	:	Irritating to eyes
R43	:	May cause sensitisation by skin contact.

Safety Phrases

S7	:	Keep container tightly closed.
S16	:	Keep away from source of ignition
S24/25	:	Avoid contact with skin and eyes.
FDA no	:	182.2
FEMA no	:	NA
HS Code	:	09081110

16.. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information containedherein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.