

Material Safety Data Sheet

Sugar Cane Molasses

1. Identification of the Product and the Company

Product name	:	Sugar Cane Molasses
Product code	:	1
Product type	:	Animal feed ingredient, Fermentation substrate, Soil redemption and Briquetting
Supplier	:	Premier Molasses
Contact number for technical information	:	Shree Daataa Shree, 811, Surya Kiran Building, 19 KG Marg, New Delhi, India. Phone: +91 9810501063

2. Composition and Process

A by-product of sugar factories in countries growing sugar cane and/or sugar refineries processing raw sugar cane.

A dark brown syrupy liquid with earthy caramel-like, non-pungent smell.

3. Hazards Identification

- Inhalation	:	Not applicable
- Skin contact	:	None under normal ambient conditions
- Eye contact	:	None under normal conditions
- Ingestion	:	None under normal conditions

4. First Aid Measures

- Skin	:	May cause slight irritation, wash area with soap and water
- Eyes	:	May cause irritation, flood eye with water

5. Fire-Fighting Measures

Not applicable, not combustible when spilled or transported

6. Accidental Release Measures

Personal precautions	:	None under normal conditions.
Environmental precautions	:	Biodegradable, increases BOD and COD – see 12 .
After spillage/leakage	:	Contain spills with sand and shovel into salvage container for disposal. Hose down small spillages or residue (slippery when wet) into sewers serviced by wastewater plant with plenty of water. Prevent direct discharge into watercourses or lakes due to high BOD. If this does occur, inform Local Authorities at once.

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7. Handling and Storage

Handling	:	Avoid contact with skin, eyes & clothing. Wear recommended PPE.
Storage	:	Store in ventilated tanks (mild steel, stainless steel, polyethylene, PVC) at ambient temperatures. Avoid microbiological contamination or dilution with water.

8. Exposure controls/ Personal protection

- Personal protection	:	None under normal conditions
- Respiratory protection	:	Not applicable
- Hand protection	:	Not required, butyl rubber gloves advised
- Eye protection	:	Safety glasses or goggles may be desirable when emptying containers or drums.

9. Physical and Chemical properties

Physical state at 25°C	:	Viscous liquid
Colour	:	Very dark brown
Odour	:	Weak caramel, earthy, non-pungent
pH value as is	:	About 5.0
Initial boiling point (°C)	:	>100
Flammability, Flash point (°C)	:	Not applicable
Explosion limits (lower) (kg/ m ³)	:	Not applicable
Relative Density at 20°C (kg/l)	:	1.4-1.44
Viscosity (cps) at 20°C	:	About 5000-20000
Solubility in water (% weight)	:	Forms infinite aqueous solution
Vapour pressure (hPa)	:	Not applicable
Thermal decomposition (°C)	:	Begins about 60

10. Stability and Reactivity

Hazardous decomposition products	:	Burning can produce CO ₂ and water, N compounds
Materials to avoid	:	Strong acids and alkalis, oxidising agents
Microbiological stability	:	Stable unless diluted with >5% water when yeast, mould and some harmless bacterial (e.g. Lactobacillus spp.) growth may occur in warm temperatures. Pathogens will not grow in undiluted product due to its high osmotic pressure and low water activity.

11. Toxicological information

Acute toxicity	:	None, non toxic
Chronic toxicity	:	None

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12. Ecological information

No significant environmental hazard or adverse effect from human or animal exposure resulting from accidental release of this material is anticipated. Its components are used in food and feed and there is no LD₅₀.

- COD (mgO₂/g ds) : About 1100
- BOD (mgO₂/g ds) : About 1000
- Ecotoxicity : Due to its high BOD, accidental discharge of large quantities into rivers or lakes will cause temporary algal growth ('bloom') and dissolved oxygen reduction with possible deleterious effects on fish.

13. Disposal considerations

- Disposal : See Section 6

14. Transport information

No special requirements or precautions applicable

15. Regulatory information

- Feed legislation and : Complies with the Feeding Stuffs Regulations (EC) No 767/2009 and Amendments

16. Other information

- Symbol(s) : None
- R and or S phrases : None
- Recommended uses : As an animal feed component, fermentation substrate, soil treatment, waste water lagoon activated sludge nutrient, nitrogen reduction.

The contents and format of this MSDS are in accordance with EC Commission Directive 91/155/EC, as amended by Directive 93/112/EC.

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