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MATERIAL SAFETY DATA SHEET

Gum Arabic
(TNL 1767)

1. Identification

Gum Arabic.

2. Composition/Information on Ingredients

The product of various tropical trees in Africa and Asia.

3. Hazards Identification

	CAS	OSHA PEL (ppm)	TWA TLV (ppm)
Guar Gum	9000-01-5	15mg/m³	10mg/m³ 5mg/m³

Limits based on nuisance particulate values for total and respirable dust.

4. First-Aid Measures

Eye contact	Flush with plenty of water for at least 15 minutes and seek medical attention if irritation persists.
Skin contact	Remove contaminated clothing and wash contact area with soap and water for 15 minutes.
Inhalation	In case of exposure to a high concentration of dust, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.
Ingestion	If appreciable quantities are swallowed, seek medical attention.

5. Fire-Fighting Measures

Extinguishing media	CO_2, dry chemical (small fires), Foam, water spray (large fires).
Protective equipment for	Self-contained breathing apparatus and complete personal Fire-fighters protective equipment when entering confined areas where potential exposure to vapours or products of combustion exists.

6. Accidental Release Measures

For wet material, dike spill and absorb with inert material and collect for disposal. Caution: wet material is slippery. For dry powder, collect mechanically for disposal. Avoid creating dust clouds and breathing dust.

7. Handling and Storage

The product requires no special measures to be taken for safe handling and storage.

8. Exposure Control and Personal Protection

Wear a properly fitted NIOSH/MSHA approved dust or air-line respirator whenever exposure to dust is likely and where ventilation is inadequate. For operations where contact can occur, a safety shower and eye wash facility should be available.

9. Physical and Chemical Properties

Physical form	Powder.
Colour	White to pale yellow.
Odour	Slight.
pH of aqueous solution	Not applicable
Boiling point	Not determined
Melting point	Not applicable
Viscosity	Not applicable
Flash point	93°C
Flammability solid/gas	Not applicable
Autoflammability	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable
Vapour pressure	Not applicable
Specific gravity	>1.0
Water solubility	soluble
Bulk density	40 lb/cu ft
Partition coefficient octanol/water	Not applicable
Explosive limits	Not applicable

10. Stability and Reactivity

Thermal decomposition	Fumes produced when heated the decomposition products may include CO and CO_2.
Hazardous reactions	Hazardous polymerisation will not occur.

11. Toxicological Information

Refer to Section 16.

12. Ecological Information

Biodegradation	No data.
Fish toxicity	No data, but not expected to be harmful.
Bacterial toxicity	No data, but not expected to be harmful.

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13. Disposal Considerations

Incinerate or dispose of in a landfill in accordance with federal state and local regulations. This material is not defined as a hazardous waste under current RCRA regulations.

14. Transport Information

UN number	Not assigned
IMDG code/class	Non hazardous
ICAO/IATA (air) class	Non hazardous
RID/ADR class	Non hazardous
ADNR class	Non hazardous

15. Regulatory Information

No specific data available.

16. Other Information

Store in a dry place. Keep container closed to avoid moisture pickup. Avoid creating dust clouds and breathing dust when handling.

Explosive test data on Guar And guar derivatives:	**Guar Gum**	**Gum Derivatives**
Minimum Oxygen Concentration (%)	19	18
Minimum Ignition energy (mj)	840	40000 (1)
Minimum Ignition Temperature Cloud (°C)	510	510
Minimum Ignition Temperature Layer (°C)	216	199
Minimum Explosive Concentration (oz per cu.ft)	0.8 (2)	0.29 (2)

(1) This material would not ignite at energies up to 40 joules. The material would ignite when subjected to 24 watt continuous a:s.

(2) In larger vessels explosions may occur at lower dust concentrations.

SPECS9/92

The information provided on this sheet is based on our knowledge of the product concerned at the date of issue. It is provided in good faith. Users should also bear in mind that risks may arise when a product is put to uses other than those for which it is destined.