



MATERIAL SAFETY DATA SHEET

REF: 91/155 EEC AND AMENDMENTS WITH RESPECTIVE NATIONAL IMPLEMENTATIONS

ADM NOVAXAN™ and OPTIXAN XANTHAN GUM

1.0 SUBSTANCE IDENTIFICATION

- 1.1 Commercial product name: Xanthan Gum
- 1.2 Chemical characterisation: Xanthan Gum. Polysaccharide gum produced by the fermentation of carbohydrate with the bacterium *Xanthomonas campestris*
- 1.4 Molecular weight: N/A
- 1.5 CAS No: 11138-66-2
- 1.6 EINECS No: 234-394-2
- 1.7 FOR USE IN FOOD
- 1.8 Manufactured by: Archer Daniels Midland Company, 4666 Faries Parkway, Decatur, IL 62525, U.S.A.
- 1.9 Supplied in Australia by: ADM Australia Pty Ltd., PO Box 281, Suite 1003, Level 10, 1 Newland Street, Bondi Junction, NSW 2022
- 1.10 Australian Emergency Telephone Number: 0417 285396 (24 hours)
- 1.11 U.S. Emergency Telephone Number: +1 217 424-5200 (24 hours)

2.0 COMPOSITION

- 2.1 Xanthan Gum
- 2.2 No hazardous impurities.

3.0 HAZARDS IDENTIFICATION

- 3.1 Xanthan Gum is not classified as a Dangerous Substance within the definitions of EC Directive 67/584.
- 3.2 Contact with eyes (e.g. dust particles) may cause irritation.
- 3.3 Avoid build up of dust particles. Possibility of dust explosion.
- 3.4 Excessive inhalation of dust should be avoided; the hygroscopic property of xanthan gum can impede normal breathing.

4.0 FIRST AID MEASURES

- 4.1 After contact with eyes, flush immediately with plenty of water for 15 minutes and seek medical advice.
- 4.2 After prolonged contact with skin, wash the affected area with water, remove contaminated clothing and launder before re-use. Seek medical advice if irritation persists.
- 4.3 If large quantities of dust are inhaled, keep the airway open. Move immediately to fresh air and seek medical advice.

5.0 FIRE FIGHTING MEASURES

- 5.1 Avoid ignition sources where xanthan gum dust might be generated.
- 5.2 Water, carbon dioxide, or powder extinguisher may be used.

5.3 Fire fighters should wear protective clothing and approved respirator.

5.4 Xanthan gum will burn when in contact with flame but self-extinguishes when flame is removed.

Effective: 05/2007

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Recover product by vacuum or broom and shovel. Do not flush area with water; wetted material will be very slippery.

6.2 Spillages of xanthan solutions should be contained and collected on absorbent material. Thoroughly clean up affected area.

7.0 HANDLING AND STORAGE

7.1 Store in a dry, well-ventilated area in tightly closed containers to prevent entry of moisture.

7.2 Industrial hygiene - avoid breathing dust; use in an area with adequate ventilation.

Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Respiratory protection: NIOSH approved chemical respirator with dust filter

8.2 Hand protection: Not required

8.3 Eye protection: Safety Glasses

8.4 Other: NIOSH approved chemical respirator with dust filter while handling powder in dust generating situations. Excessive inhalation of dust should be avoided; the hygroscopic property of xanthan gum can impede normal breathing.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: Soluble white to off white powder or granules

9.2 Odour: Slight

9.3 pH: 7 ± 1.5

9.4 Melting point: Not Applicable

9.5 Boiling point: N/A – solid

9.6 Bulk density: 550-850 kg/m³ (depending upon grade)

9.7 Solubility in water: Soluble, but forms very viscous solutions which become Pasty at concentrations greater than 5%.

10.0 STABILITY AND REACTIVITY

10.1 Shelf life: Xanthan gum is stable under normal conditions if Stored under cool, dry conditions; use on a First-In First- Out basis and use within 36 month period. The product is hygroscopic and must be stored in tightly closed containers to prevent the entry of moisture.

10.2 Hazardous decomposition: Thermal decomposition may produce carbon monoxide and dioxide.

10.3 Incompatible with: Strong oxidising agents.

10.4 Hazardous polymerization: Will not occur.

11.0 TOXICOLOGICAL INFORMATION

11.1 Xanthan Gum is a widely used thickener and stabilizer for food and industrial use.

12.0 ECOLOGICAL INFORMATION

12.1 Xanthan gum is biodegradable.

13.0 DISPOSAL CONSIDERATIONS

13.1 Dispose in landfill or flush to drain with large amounts of water, depending upon local regulations. Xanthan gum is biodegradable in waste treatment facilities.

14.0 TRANSPORT INFORMATION

14.1 No special requirements and no restrictions on transportation by land, sea or air.

15.0 REGULATORY INFORMATION

15.1 Xanthan gum is a widely-used thickener and stabilizer for food and industrial use.

15.2 Water Hazard Class (Germany) – Class 1

16.0 ADDITIONAL INFORMATION

16.1 See Product Data Sheet.

16.2 This Safety Data Sheet is based upon a limited review of ADM files and standard Toxicological handbooks.