

1. IDENTIFICATION

Product name: **MANA ADDIT™ ADJUVANT PCP 29263**
 Chemical name of active ingredient(s): Surfactant
 Manufacturer: Makhteshim Agan of North America, Inc.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 919-256-9300
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053
 For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Proprietary Surfactant	NA	36.9	NE	NE	NA	NA
NA=Not available NE=Not established						

3. HAZARDS IDENTIFICATIONS**PHYSICAL PROPERTIES**

Appearance: Clear yellowish liquid

Odor: Oily odor

EMERGENCY OVERVIEW: Avoid contact with skin, eyes and clothing. Goggles, face shield and gloves should be worn when handling, mixing and loading. Wash concentrate from skin or eyes immediately. Avoid breathing vapours or spray mist. Avoid working in spray mist. After use, wash hands and other exposed skin thoroughly.

PRIMARY ROUTES OF EXPOSURE: Skin and eye contact and inhalation.

4. FIRST AID MEASURES**FIRST AID:**

IF SWALLOWED: DANGER - This product contains a petroleum distillate. Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: This product contains materials that may cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage. Treat symptomatically. Treat symptomatically for skin and eye irritation.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS: LFL/UFL: Not applicable

EXTINGUISHING MEDIA: Water, foam, CO₂, dry chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear protective clothing and self-contained breathing apparatus. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin, eyes and clothing. Do not let product enter drains. Use good housekeeping practices. Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Sweep up and place in an appropriate container. Hold for disposal. Pick up wash liquid with absorbent material and place in container for disposal. Dispose of in accordance with Section 13: Disposal Considerations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Goggles, face shield and gloves should be worn when handling, mixing and loading. Wash concentrate from skin or eyes immediately. Avoid breathing vapours or spray mist. Avoid working in spray mist. After use, wash hands and other exposed skin thoroughly. Avoid contamination of ponds, streams, rivers and other water sources. DO NOT APPLY BY AIR.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Store away from food and feed and all sources of heat. Keep container closed. Do not allow water to be introduced to the contents of this container. May be stored at any temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Wear goggles or face shield when handling, mixing and loading, cleanup and repair activities.

SKIN PROTECTION: Wear coveralls over normal work clothes during all activities.

HAND PROTECTION: Wear chemical resistant gloves and apron when handling, mixing and loading, cleanup and repair activities.

ADDITIONAL INFORMATION: Change contaminated clothing daily and wash before reusing. DO NOT handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure. ALWAYS wear gloves for mixing/loading operations. Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking. Clean protective equipment daily.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Use adequate ventilation to minimize airborne concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPARANCE: Clear yellowish liquid

ODOR: Oily odor

pH: 5-7

SPECIFIC GRAVITY/DENSITY: 0.867 g/mL @ 20° C

VISCOSITY: 61 mPa

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Not applicable.

INSTABILITY CONDITIONS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD₅₀ (Rat) : > 5,000 mg/kg
 Acute Dermal LD₅₀ (Rat): > 2,000 mg/kg
 Acute Inhalation LC50 (Rat): > 2.07 mg/L (4 hr.)
 Eye Irritation: Mildly irritating
 Dermal Irritation: Moderately irritating
 Dermal Sensitization: Not a skin sensitizer.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Avoid contamination of ponds, rivers and other water sources.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PESTICIDE DISPOSAL: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and provincial requirements.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated.

INTERNATIONAL TRANSPORTATION

IMO (vessel): Not regulated

IATA (air): Not regulated

15. REGULATORY INFORMATION

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the CPR.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
 Section 311/312: Acute health hazard (immediate)
 Section 313: n-Butanol 2.8% CAS#:71-36-3

CA PROPOSITION 65: Not applicable.

CERCLA RQ: Not applicable.

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	2	2	0 MINIMAL
FLAMMABILITY:	0	0	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

MSDS DATE: Draft 2-27-09

MATERIAL SAFETY DATA SHEET

MANA ADDIT™ ADJUVANT

Page 4 of 4

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