

# MATERIAL SAFETY DATA SHEET

## MANA ADJUVANT 80

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **MANA ADJUVANT 80 (PCP REG. NO. 30419)**  
Chemical name of active ingredient(s): Surfactant Mixture  
Manufacturer/Registrant: Makhteshim Agan of North America, Inc.  
3120 Highwoods Boulevard, Suite 100  
Raleigh, NC 27604  
Phone: 1-919-256-9300  
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

CHEMICAL NAME	CAS NUMBER	%	ACGIH/TLV	OSHA/PEL	OTHER	NTP/IARC/OSHA (CARCINOGEN)
Proprietary Surfactant	Mixture	100	NA	NA	NA	NA

NA=Not applicable

### 3. HAZARDS IDENTIFICATION

#### PHYSICAL PROPERTIES:

Appearance: Clear yellow liquid  
Odor: Fatty acid odor.

**EMERGENCY OVERVIEW:** Caution: Skin irritant. Avoid contact with skin, eyes and clothing. Goggles, face shield and gloves should be worn when handling, mixing or 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. May cause irritation to the eyes, skin and respiratory system.

**PRIMARY ROUTES OF EXPOSURE:** Eyes, skin, ingestion and inhalation.

### 4. FIRST AID MEASURES

#### FIRST AID:

**IF SWALLOWED:** If victim is alert and not convulsing, rinse mouth out and give 200-300 mL (1 cup) of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention immediately.

**IF IN EYES:** Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention immediately.

**IF ON SKIN OR CLOTHING:** Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention immediately.

**IF INHALED:** Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice immediately.

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

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

**FLASH POINT AND METHOD:** > 93°C (PM closed cup).

**FLAMMABLE LIMITS:** LFL/UFL: Not applicable.

**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide, and water fog.

**FIRE FIGHTING PROCEDURES:** Wear protective clothing and self-contained breathing apparatus. If water is used to fight fire, dike and collect runoff from entering water supplies or the environment.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Isolate spill or leak area immediately. Keep unauthorized personnel away.

Wear personal protective equipment. For land spills absorb spilled material with a suitable absorbent. Wash hard surfaces with detergent and water, then absorb with suitable absorbent. For water spills minimize the spread of contamination. Collect the spilled material, any contaminated soil, water and absorbent and place in a waste container for proper disposal. Notify applicable government authority if release is reportable or could adversely affect the environment. Dispose of in accordance with Section 13.

### 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Use only with adequate ventilation and avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Store in a cool, dry and well-ventilated area. Keep away from heat, sparks and flame. Keep containers closed. Keep out of reach of children and pets.

**STORAGE TEMPERATURE:** Between 5°C to 40°C.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**EYE PROTECTION:** Chemical safety goggles when there is potential for eye contact.

**SKIN PROTECTION:** Chemical resistant gloves and protective clothing should be impervious when using.

**HAND PROTECTION:** Use chemical resistant gloves.

**RESPIRATORY PROTECTION:** If misting conditions exist, use NIOSH/MSHA-approved respirator for organic vapors.

**ENGINEERING CONTROLS:** Provide local exhaust or ventilation.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear yellow liquid.

**ODOR:** Fatty acid odour.

**SPECIFIC GRAVITY:** 0.97 at 20°C.

**BOILING/MELTING POINT:** Not determined.

**pH:** 6 to 7.

**% VOLATILE:** 5%.

**SOLUBILITY (WATER):** Dispersible.

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**INCOMPATIBILITY WITH OTHER SUBSTANCES:** Strong oxidizing agents, such as Hydrogen Peroxide, Bromine and Chromic Acid.

**CONDITIONS TO AVOID:** Prolong storage at temperatures above 40°C.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce carbon oxides and possibly irritating gases.

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### 11. TOXICOLOGICAL INFORMATION

**INGESTION:** May cause gastrointestinal tract irritation and irritation to the throat.

**SKIN CONTACT:** May cause mild to moderate skin irritation.

**INHALATION:** Mists and vapours may cause irritation to the respiratory tract.

**EYE CONTACT:** May cause mild eye irritation.

**CHRONIC EFFECTS:** None known.

**CARCINOGENICITY:** The ingredients in this product are not classified as carcinogenic by the ACGIH, IARC, OSHA and the NTP.

**SUMMARY:** May cause irritation to the eyes, skin and respiratory system.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL EFFECTS:** Do not contaminate domestic/irrigation water supplies. (lakes, streams, ponds, rivers).

**ECOTOXICOLOGICAL INFORMATION:** Not determined.

**PERSISTENCE AND DEGRADATION:** Not known.

### 13. DISPOSAL CONSIDERATIONS

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

**PRODUCT DISPOSAL:** Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage or to sewer systems.

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

### 14. TRANSPORT INFORMATION

**TDG CLASSIFICATION:** Not regulated.

### 15. REGULATORY INFORMATION

This product is exempt from the requirements of WHMIS and is registered under the *Pest Control Product Act*. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

### 16. OTHER INFORMATION

**MSDS DATE:** 2-7-12

The information contained herein is given in good faith and is believed to be correct, but no warrant, express or implied is made. Consult Makhteshim Agan of North America, Inc. for further information.