

MATERIAL SAFETY DATA SHEET

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Date of Issue: December 2012
MSDS No. FMC/SUR700/1

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: FMC Surfactant 700

Other Names: FMC Surfactant 700.
Use: Acidifying and penetrating surfactant.
Company: FMC Crop Protection Pty Ltd.
Address: 5 Palmer Place, Murarrie, Qld 4172
Telephone Number: 07 3908 9222 **Fax Number:** 07 3908 9221
Emergency Telephone Number: 1800 033 111 (All hours - Australia wide).

SECTION 2 HAZARDS IDENTIFICATION

**Classified as Hazardous according to criteria of the Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.**

Risk Phrases: R34 Causes burns.
R41 Risk of serious damage to eyes.

Safety Phrases: S2 Keep out of reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

CHEMICAL	CAS NUMBER	PROPORTION
Soyal phospholipids	8002-43-5	350 g/L
Propionic acid	79-09-4	350 g/L
Surfactant	-	10-330%
Other ingredients determined not to be hazardous	-	Balance

SECTION 4 FIRST AID MEASURES

Ingestion: If swallowed do NOT induce vomiting. Rinse mouth and then drink plenty of water. If swallowed, seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Eye contact: Immediately hold eyes open and flood with plenty of clean water. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. Seek medical advice immediately.

Skin contact: Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

Inhalation: Remove to fresh air and observe until recovered. If effects persist, seek medical advice.

Advice to Doctor: Treat symptomatically. If vomiting has occurred, vomitus may have been aspirated into the lungs which may result in lung damage.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Generally considered a low flammable risk, however upon evaporation of water the product is combustible. No risk of explosion if involved in a fire.

Extinguishing media: Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff.

Hazards from combustion products: There is no risk of an explosion from this product under normal circumstances if involved in a fire. Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: Isolate and post spill area. Spills are slippery. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls and gloves. Large spills should be dyked or covered to prevent dispersal. Vacuum, shovel or pump spilled material into an approved container and dispose of as listed below. Keep out unprotected persons and animals.

Material and methods for containment and cleanup procedures: To decontaminate spill area, tools and equipment, wash with excess water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Ensure containers are kept closed until using product. Avoid contact with eyes and skin. Wash hands after use.

Conditions for Safe Storage: Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children, animals, food, feed stuffs, seed and fertilizers. Not classified as a Dangerous Good.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**National Exposure Standards:**

Exposure guidelines have been established for Propionic acid, one of the ingredients in this product, by Safe Work Australia.

Atmospheric Contaminant	Exposure Standard (TWA)	STEL (mg/m ³)
Propionic acid	30 mg/m ³ (10 ppm)	Not set

TWA = Time-weight Average STEL = Short term Exposure Level

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean.

Personal Protective equipment (PPE):

General: Although no special skin protection is required, it is good practise to wearing gloves (preferably elbow length) when handling the product. Avoid eye and skin contact. Wash hands after use.

Personal Hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 | PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid.
Odour:	Pungent, vinegar like odour.
Melting Point:	No data available.
Boiling Point:	No data available.
Solubility in Water:	Soluble in water.
Specific Gravity:	Approximately 1.0 @ 20°C
pH Value:	5 - 6
Flammability:	Non combustible material.
Poison Schedule:	This product is a schedule 5 (S5) poison.

SECTION 10 | STABILITY AND REACTIVITY

Chemical Stability: Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

Conditions to avoid: Do not store for prolonged periods in direct sunlight.

Incompatible materials: Avoid contact with alkaline material.

Hazardous decomposition products: Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes.

Hazardous reactions: No special considerations. Will not polymerise

SECTION 11 | TOXICOLOGICAL INFORMATION

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure. No LD₅₀ data is available for this product.

Ingestion: Direct ingestion of the concentrate may cause irritation and/or burns to the mucous membranes (nose, throat and lungs). Low acute toxicity. Acute Oral LD₅₀ > 5000 mg/kg..

Skin: This product is a severe skin irritant. Low acute toxicity. Acute dermal LD₅₀ > 5,000 mg/kg. Product is not a skin sensitiser.

Eye: The concentrate will cause irritation and damage to the eye unless washed out immediately

Inhalation: Inhalation of vapours or mist will result in irritation of the mucous membranes. Symptoms may include nasal irritation, sore throat, coughing, hoarseness and in extreme exposures breathing difficulties.

Chronic Effects: No information is available but severe chronic effects are not expected.

SECTION 12 | ECOLOGICAL INFORMATION

Environmental Toxicology: The following information is for Propionic acid, one of the active ingredients in this product. The data indicates low to moderate aquatic toxicity.

LC₅₀ (96 hr) Bluegill Sunfish = 210 mg/L.

LC₅₀ (96 hr) rainbow trout = 130 mg/L.

LC₅₀ (48 hr) Daphnia magna = 170 mg/L.

Environmental Properties: No information available. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

SECTION 13 | DISPOSAL CONSIDERATIONS

Spills & Disposal: Isolate and post spill area. Wear prescribed protective clothing and equipment. Large spills should be dyked or covered to prevent dispersal. Keep out animals and unprotected persons. Keep material out of streams and sewers. Dispose of drummed wastes, including

SECTION 13 DISPOSAL CONSIDERATIONS (Continued)

decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

Disposal of empty containers: Triple or preferably pressure rinse containers before disposal. Add rinsings to tank mix. Do not dispose of undiluted chemicals on-site. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

SECTION 14 TRANSPORT INFORMATION

Storage & Transport: This product is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not classified as a Dangerous Good for marine or air transport.

SECTION 15 REGULATORY INFORMATION

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. C, Xi. Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 5 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 67929.

Product is not classified as a Dangerous Good according to the ADG Code (7th Ed).

SECTION 16 OTHER INFORMATION

Issue Date: 21 December 2012. Valid for 5 years. (First issue).

Key to abbreviations and acronyms used in this MSDS:

ADG Code: Australian Dangerous Goods Code (for the transport of Dangerous Goods by Road and Rail).

ASCC: Australian Safety & Compensation Council (formally known as the National Occupational Health & Safety Commission (NOHSC)).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

Lacrimation: The production, secretion, and shedding of tears.

Lavage: A general term referring to cleaning or rinsing.

NOHSC: National Occupational Health and Safety Commission.

Pneumonitis: A general term that refers to inflammation of lung tissue.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. "Search Hazardous Substances". Safe Work Australia Council website. (2011).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Standard for the Uniform Scheduling of Medicines and Poisons. No. 3. Medicines and Poisons Scheduling Secretariat. June 2012.

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This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

End of MSDS