

Safety Data Sheet

Metafort® 60SL

1) Identification of Substance:	
Product name:	Metafort 60SL
Active Ingredient(s):	Methamidophos 600 g/L SL.
ACVM Approval:	P5629
EPA Approval:	HSR000226
Distributed by:	Adria Crop Protection P.O. Box 535, Kumeu 0841, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adria.nz
Emergency Number: National Poisons and Hazchem Information Centre	0800 734 607 (24hr)3 0800 POISON (0800 764 766)
2) Hazards Identification:	
	
HSNO Classifications:	3.1D, 6.1B (O), 6.1B (D), 6.1B (I), 6.9A, 8.2C, 8.3A, 9.1A, 9.2B, 9.3A, 9.4A
Signal Word:	Danger
Hazard Statement Codes:	
H227	Combustible liquid.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H370/H372	Causes damage to organs from single, prolonged or repeated exposure.
H314/H318	Causes severe skin burns and serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
H422	Toxic to the soil environment.
H431	Very toxic to terrestrial vertebrates.
H441	Very toxic to terrestrial invertebrates.

Prevention Statement Codes:	
P102	Keep out of reach of children.
P103	Read label before use
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves and clothing and eye/face protection.
P264	Wash entire body thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P262	Do not get in eyes, or skin, or on clothing.
P260	Do not breathe fumes/mist/vapours or spray.
P271	Use only outdoors or in a well-ventilated area
P284	Wear respiratory protection.
P273	Avoid release to the environment.
Response Statement Codes:	
P101	If medical advice is needed have product container or label at hand.
P370+P378	In case of fire: Use water spray, foam, dry chemical, carbon dioxide, sand for extinction.
P301+P310/P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE or a doctor/physician.
P321	For specific treatment refer to section 4 First-Aid.
P361	Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTRE or doctor/physician.
P320	For specific urgent treatment refer to section 4 First-Aid.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.
P363	Wash contaminated clothing before reuse.
P310	Immediately call a POISON CENTRE or doctor/physician.

P321 P305+P351+P338 P310 P391 Storage Statement Codes: P403+P235/P403 + P233 P405	For specific treatment refer to section 4 First-Aid IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician. Collect Spillage. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.	
3) Composition Details:		
Chemical identity:	Methamidophos	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Methamidophos	010265-92-6	51.3 to 52.6
4) First Aid Measures:		
General Information:	Immediately remove contaminated clothing and wash before reuse.	
Skin contact:	IF ON SKIN (or hair): Gently wash with plenty of soap and water. Immediately call a POISON CENTRE or doctor/physician.	
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.	
Ingestion:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE or a doctor/physician. Give one atropine tablet every 5 minutes until dryness of the mouth occurs. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.	
Inhalation:	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician.	
Note to Physician:	Prolonged medical observation may be indicated.	
5) Fire-Fighting Measures:		
Flammable Class	This product is combustible.	
Prevention	Keep away from sources of ignition. No smoking.	
Extinguishing media	Small fire: Dry chemical. Large fire: Alcohol foam. Water fog. Water spray.	
Special exposure hazards	Vapour mixes readily with air, forming explosive mixtures. On exposure to high temperature, may decompose,	

	releasing toxic/flammable vapours. Thermal decomposition generates: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Phosphorus oxides.
Protection against fire	Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers.
Special procedures	Exercise caution when fighting any chemical fire. High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished. Avoid (reject) fire-fighting water to enter environment.
Hazchem Code:	2X
6) Accidental Release Measures:	
Personal precautions:	Use protective clothing, refer to Section 8). Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Clean up methods	Wear appropriate protective clothing as per Section 8). Prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material.
Disposal procedures:	Dispose of waste safely, according to local Council regulations.
7) Handling & Storage:	
General	Apply using calibrated and maintained equipment in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409). Metafort 60SL must be applied via ground-based methods only. METHOD RESTRICTIONS: This product cannot be applied indoors with high pressure handgun spray equipment. PERSONAL PROTECTIVE (PPE) AND RESPIRATORY PROTECTIVE EQUIPMENT (RPE): Avoid contact with eyes and skin. Avoid inhalation of vapour or spray mist. When mixing or applying, wear chemical resistant overalls, chemical resistant boots and gloves, chemical resistant footwear plus socks, chemical resistant head gear, eye protection and respirator (organic vapour and particulate matter). Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Avoid handling, mixing or use of the product or container near heat, flame or other sources of ignition. Do not use near air vents or ducts. Apply with well maintained and calibrated spray equipment.
Precautions in handling and storage	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Good ventilation of the workplace required. Handle in accordance with good industrial hygiene and safety procedures.
Technical Protective Measures:	Use only non-sparking tools. Use grounded electrical/mechanical equipment. Transfer pumps must be

	equipped with explosion-proof drives. Do not use compressed air to either agitate or transfer the contents of storage containers (tanks) / shipping drums containing this material.
Handling:	Wear protective clothing as per Section 8). Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Storage:	Keep in fireproof place. Store in well ventilated area below 12°C Keep away from: Strong acids. Strong alkalis.
Notification:	Notification is only required for outdoor use, and when used in a wide dispersive manner. The person applying the substance in this situation must: <ul style="list-style-type: none"> - Give written notice to anyone likely to be directly affected (such as owners and occupiers of land, property, buildings or houses immediately next to the application area). - Ensure the notification is given at least 2 working days before, but no more than 4 weeks before, each application of the product. - Ensure the written notice includes: <ol style="list-style-type: none"> a) Where the product will be applied; b) The date and approximate duration of each application; c) The steps that notified parties should take to avoid exposure; d) The name of the organisation(s) applying the product; e) Contact details for the person in charge of the application (phone, email or postal address, including a contact number for immediate contact during application).
8) Exposure Control / Personal Protection:	
Personal protection	
- Respiratory protection	Respirator (organic vapour and particulate matter) should be used if airborne particles are generated when handling this material.
- Hand protection	Wear suitable gloves resistant to chemical penetration.
- Skin protection	Avoid inhalation of vapour or spray mist. When mixing or applying, wear chemical resistant overalls, chemical resistant boots and gloves, chemical resistant footwear plus socks, chemical resistant head gear, eye protection
- Eye protection	Face shield.
- Ingestion	When using, do not eat, drink or smoke.
RESTRICTED ENTRY INTERVAL (REI):	The REI is 48 hours. The person in charge is responsible for making sure no person enters the application area before the end of the REI. A person may only enter the indoor treated area if PPE and RPE is worn as if they were applying the substance,

Industrial hygiene	Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapour or dust mixtures.
9) Physical & Chemical Properties:	
Physical state at 20 °C:	Liquid
Colour:	Yellow
Odour:	Characteristic
Melting point/boiling point:	< -10
Density:	1.15 (20°C)
Surface tension [mN/m]:	-
pH:	3.2
Flash point [°C]:	>70° C
Ignition Temperature: [°C]:	-
Explosive Limits:	-
Viscosity:	28.9 cPs
Solubility in water	Good.
10) Stability & Reactivity:	
Hazardous decomposition products	Thermal decomposition generates: Toxic and combustible vapours. Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulphur compounds. Phosphate.
Hazardous Reactions	Reacts violently with: Strong oxidizing agents. Acids. Alkali.
Hazardous properties	In use, may form flammable/explosive vapour-air mixture.
11) Toxicological Information:	
Acute toxicity - Dermal - Ocular - Ingestion	Toxic in contact with skin Irritating to eyes Very toxic if swallowed.
Rat oral LD50 [mg/kg]	No data available.
On ingredients	See Heading: Information on ingredients.
Bees:	THIS PRODUCT IS VERY TOXIC TO BEES. Do not apply this product to any plant or tree likely to be visited by bees: a) At the time of application; or b) Immediately after application until spray has dried; or c) In areas where bees are foraging.
12) Ecological Information:	
Ecological effects information	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
LC50 96h fish [mg/l]	No data available.
On ingredients	See Heading: Information on ingredients.
13) Disposal Considerations:	
Disposal:	Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

14) Transportation Information:



Rail/road (RID/ADR):

ORGANOPHOSPHORUS PESTICIDE,
LIQUID, TOXIC (Methamidophos)

Sea (IMDG code):

Class: 6.1
Packaging Group II

Air (ICAO/IATA):

UN: 3018
Hazchem 2X
Marine Pollutant, Toxic to the soil environment.
Very toxic to terrestrial vertebrates and invertebrates.

15) Regulatory Information:

Certified handlers:

This product must be under the care of an Certified Handler at all times. Records Must be kept.

Tracking:

Required at all stages.

ACVM controls:

See www.foodsafety.govt.nz for registration conditions.

16) Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the product's properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.