

## HEALTH AND SAFETY DATA SHEET

<b>1.</b>	<b>TRADE NAME</b> DESCRIPTION	<b>PREMIUM N</b> Nitrogen fertilizer solution, based on methylene-urea
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<b>MANUFACTURER/SUPPLIER</b>	Farmura Ltd.
<b>ADDRESS</b>	Stone Hill, Egerton, Ashford, Kent TN27 9DU
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<b>2.</b>	<b>COMPOSITION/INFORMATION ON THE COMPONENTS</b>	
	Formulation	Methyln-urea Urea
		concentration 50÷60% - not classified 57-13-6 concentration 10% max – not classified

<b>3.</b>	<b>HAZARD IDENTIFICATION</b>	
	Main Hazard	Low level risk
	Environment risk	If spilled in water can cause nitrogen increase, negative for living organisms.
	Physical and Chemical hazards	non-flammable, low level risk.

<b>4.</b>	<b>FIRST AID MEASURES</b>	
	First Aid – Eyes	Irrigate with plenty of water for at least 15 minutes
	First Aid – Skin	Wash contaminated skin with flushing water for 15 minutes
	First Aid – Ingestion	Rinse mouth thoroughly with water. Drink plenty of water. Consult a doctor during handling and use it can release ammoniacal vapours. If respiration is difficult, remove the victim from the polluted area and, if necessary, give oxygen.
	First Aid – Inhalation	

<b>5.</b>	<b>FIRE FIGHTING MEASURES</b>	
	Extinguishing Media	Not applicable - Non combustible. Fires involving the product can be extinguished using water, foam, carbon dioxide or powder extinguishers.
	Protective Equipment for Fire Fighting	Wear appropriate protective equipment for skin and respiratory tract as product can emit toxic fumes of NOx.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	During handling use rubber gloves and protect eyes.
Spillage:	If spillage occurs in closed place, ventilate the area, contain and absorb the product with sawdust, sand or earth and collect mechanically. Afterwards may be flushed with large quantities of water
Environmental Precautions:	Try to prevent the material from entering drains or water courses

## 7. HANDLING AND STORAGE

Loading, unloading and handling operations must be done by skilled staff, following normal safety rules. To avoid eyes and skin contact use appropriate protective equipment.

Premium N can be stored in stainless steel, fibreglass or carbon steel tanks providing an anticorrosion treatment.

Premium N has a very high stability in a wide range of temperatures however avoid abrupt heating or cooling.

Storage between Store away from direct sunlight and  
20° and 25° C. Keep away from frost.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The product contains ammoniacal nitrogen and could emit ammonia vapours.

Respiratory Protection filters	Respiratory tract protection with ammonia [K1 type]
Gloves	Use rubber gloves during handling
Eye Protection	Wear eye protection with glasses.
Body Protection equipment for skin a tract.	Wear appropriate protective and respiratory

Do not smoke, eat or drink in the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Limpid or slightly opalescent liquid
Appearance/odour	Colourless or slightly yellowish with slightly ammoniacal odour
Water Solubility	Emulsifies in water
Solubility in organic solvents	DMF, DMSO, Dioxane
Density	1.23 kg/dm <sup>3</sup>
pH	9.0 ÷ 10.5
Melting point	Stable at -10°C
Boiling point	100 ÷ 102°C at 760 torr

Flash point	Not flammable
Explosion limits in air % volume]	Not definable
Auto-ignition temperature	Not definable
Dangerous reactions	With strong alkali, oxidizers and acids

## 10. STABILITY AND REACTIVITY

Premium N is strongly buffered but contact with strong alkali can cause ammonia vapour emissions. Keep away from heat sources.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity – data not available, on similar chemical preparations LD <sub>50</sub> rat > 5000 mg/kg	
Inhalation toxicity	Data not available
Irritating power/corrosive action:	skin [Draize test] – weakly irritant
	Eyes [Draize test] – weakly irritant
Cancerogenicity:	The substance is not cancerogen
Mutagenicity	The substance is not mutagen
Effect on the reproduction cycle	The substance is not toxic for reproductive cycle

## 12. ECOLOGICAL INFORMATION

Premium N is a nitrogen fertilizer solution based on methylene urea and in the right application doses it is a nutrient for plants.	
In case of excessive dosage it can be moderately phytotoxic and have negative effects on living organisms.	
Bioaccumulation	Product is not expected to
bioaccumulate	

## 13. DISPOSAL

Product Disposal	Dispose of in accordance with all applicable Local and national regulations
Container Disposal	Where possible containers should be rinsed With clean water and disposed of in line with Local regulations

## 14. TRANSPORT INFORMATION

above

Non Hazardous for transport – see notes

## 15. SAFETY

Keep out of Reach of Children  
Do not Freeze  
Keep Container Tightly Closed

The data given in this sheet is based on current knowledge and experience and is given in good faith but without guarantee of accuracy and no liability is accepted for any insufficiency or inaccuracy in such data in any case whatsoever.

The purpose of this Health and Safety Data Sheet is to describe the product in terms of its safety requirements. The data does not signify any warranty with regard to the materials, properties or use.

