



MATERIAL SAFETY DATA SHEET
AGWAY INC. — CHEMICAL DIVISION
P. C. 114.1F

#42
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SECTION I

EPA Reg. No. 3125-331-8590

AGWAY INC. — CHEMICAL DIVISION		EMERGENCY TELEPHONE NO.	
BOX 4933, SYRACUSE, NEW YORK 13221		DAY	NIGHT
PRODUCT NAME		800-424-9300	800-424-9300
Lawn Insect Control with Oftanol [®] Insecticide		717-854-3818	717-764-2138
CHEMICAL NAME & SYNONYMS		315-477-6177	315-673-1303
Isofenphos		CHEMICAL FAMILY	
TRADE NAME & SYNONYMS		Organophosphate insecticide	
Amaze [®]		FORMULA	
		C ₁₅ H ₂₄ O ₄ NSP	

SECTION II — HAZARDOUS INGREDIENTS

MATERIAL	%	TLV UNITS
1-Methylethyl 2-[[ethoxy[(1-methylethyl)amino] phosphinothioyl]		
oxy]benzoate CAS NO. 25311-71-1	1.5	N/A
Inert	98.5	N/A

SECTION III — PHYSICAL DATA

BOILING POINT (°F.)	decomposes above 200°C	SPECIFIC GRAVITY approx	30#/Cu.Ft.
VAPOR PRESSURE (mm Hg)	NA	% VOLATILE BY VOLUME	NA
VAPOR DENSITY (Air=1)	NA	EVAPORATION RATE (— = 1)	NA
SOLUBILITY IN WATER	insoluble	MELTING POINT	NA
APPEARANCE AND ODOR Fine, brown granule, organic odor.			

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
N/A	NIA	NIA	NIA
EXTINGUISHING MEDIA			
Water spray, foam, carbon dioxide			
SPECIAL FIRE FIGHTING PROCEDURES			
Self-contained breathing apparatus and full protective clothing.			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
decomposition above 160°C (320°F) produces irritating and/or toxic gases.			

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE OR LD ₅₀ , LC ₅₀
Tech Acute oral LD 50 (rat) 32 mg/kg, Acute dermal LD 50 (rabbit) 162 mg/kg.
EFFECTS OF OVEREXPOSURE
Headache, dizziness, nausea, vomiting, constricted pupils.
EMERGENCY AND FIRST AID PROCEDURES
If swallowed, induce vomiting; consult a physician. Skin/eye: wash with water. See a physician if irritation persists.

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SECTION VI — REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	XX	Sustained temperatures above 100°F.
INCOMPATIBILITY (MATERIALS TO AVOID)			
Strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS			
SO ₂ , P ₂ O ₅ , amines			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	XX	

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Sweep up spilled material. Wash after handling.
WASTE DISPOSAL METHOD
Dispose of in a site approved for pesticide disposal. Consult local authorities.

SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)			
Tech requires NIOSH - approved chemical cartridge or full-face respirator with			
pesticide cartridge.			
VENTILATION	LOCAL EXHAUST	required at bagger/mixer	NIA
	MECHANICAL (GENERAL)	adequate plant Ventilation	NIA
PROTECTIVE GLOVES		EYE PROTECTION	
Rubber		Glasses/goggles	
OTHER PROTECTION EQUIPMENT			
Launder clothes before reuse.			

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS FOR HANDLING AND STORING
KEEP OUT OF REACH OF CHILDREN.
OTHER PRECAUTIONS
Do not store near materials intended for human or animal consumption.

NA= Not applicable NIA= No information available

revised 3/11/87



MATERIAL SAFETY DATA SHEET

AGWAY INC., CROP SERVICES
F/C-114 (F) (REV. 3 87)

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IDENTITY (As Used on Label)
Agway 32-5-7 50% of the Nitrogen from
Sulfur Coated Urea (SCU)

Product Code: 86-4022

EPA Reg. No.:

SECTION I

Manufacturer's Name

Agway Inc. - Crop Services

Night Emergency Telephone Number

315-477-6244

Address (Number, Street, City, State, Zip)

P.O. Box 4741

Day Telephone Number for Information

315-477-6354

Date Prepared

Date Revised

Syracuse, NY 13221

6/1/88

Signature of Preparer (optional)

SECTION II — HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific)

Other Limits

Chemical Identity; Common Name(s)

OSHA PEL

ACGIH TLV

Recommended

This granular blended fertilizer is not considered hazardous under the Hazardous Communication Standard

29CFR 1910.1200. The ingredients used in the mixture are: Diammonium Phosphate (CAS NO. 7783-28-0),

Sulfur Coated Urea, Urea (57-13-6), Sulfate of Potash (7646-93-7).

OSHA Nuisance dust limit of 15 Mg/M³ and ACGIH Nuisance dust limit of 10 Mg/M³ may apply to this mixture.

SECTION III — PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point

NA

Specific Gravity (H₂O = 1)

Approx. 1.0

Vapor Pressure (mm Hg.)

NA

Melting Point

NA

Vapor Density (AIR = 1)

NA

Evaporation Rate

NA

Solubility in Water

Partially Soluble

Appearance and Odor

Varied colored granules - white to yellowish to grayish red. Slight sulfur odor.

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)

NA

Flammable Limits

NA

LEL

NA

UEL

NA

Extinguishing Media

Water spray and flooding; foam, carbon dioxide (CO₂), spread product out.

Special Fire Fighting Procedures

Fine sand helps to smother fire. Contain runoff by diking. Use full protective clothing and NIOSH approved breathing equipment.

Unusual Fire and Explosion Hazards

Sulfur coated Urea (SCU) and other fertilizer granules may decompose above 133°C (271°F) to release irritating toxic and potentially explosive gases.

NA = Not Applicable

NIA - No Information Available

SECTION V — REACTIVITY DATA

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Stability	Unstable	Stable X	Conditions to Avoid Normally stable; absorbs moisture above 60% R.H.
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Incompatibility (Materials to Avoid)

Moderately corrosive to metals when wet. Avoid heat and alkalies.

Hazardous Decomposition or Byproducts

Ammonia, oxides of nitrogen, phosphorus and hydrogen sulfide.

Hazardous Polymerization	May Occur	Will Not Occur X	Conditions to Avoid if Polymerization will occur NA
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SECTION VI — HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation? Possible	Skin? Possible	Ingestion? Unlikely
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Health Hazards (Acute and Chronic)

Contact with skin or eyes may cause irritation, particularly under hot, humid, dusty conditions. In a fire, exposure to

sulfur and nitrogen oxides and hydrogen sulfide would be injurious to respiratory tract.

Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No
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Signs and Symptoms of Exposure

Skin or eye irritation, dryness of throat, respiratory discomfort.

Emergency and First Aid Procedures

Wash skin thoroughly with soap and water. Flush eyes repeatedly with clean water.

SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE**Steps to be Taken in Case Material is Released or Spilled**

Collect and sweep up spilled product. Repackage or dispose of it in accordance with federal, state, and local

environmental requirements. May be applied to the soil according to label directions.

Waste Disposal Method

As described above.

Precautions to be Taken in Handling and Storing

Store product in cool, dry storage avoiding locations or conditions which could cause tearing or puncturing of packages.

Other Precautions

Special care and attention by bagging and shipping crews and fork lift drivers when handling packaged or bulk product.

SECTION VIII — CONTROL MEASURES**Respiratory Protection (Specify Type)**

Use NIOSH approved respirator as specified by plant operating and safety procedures.

Ventilation	Local Exhaust At mixer and bagger.	Special NA
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Protective Gloves

As specified by plant safety procedures.

Eye Protection

As specified by plant safety procedures.

Other Protective Clothing or Equipment

When required by unusual dust, or humidity conditions, or as specified by plant training and safety programs.

Work/Hygienic Practices

Wash after handling.

NA = Not Applicable

NIA - No Information Available