



Material Safety Data Sheet

NFPA	Transport Symbol

Preparation Date 27-Jan-2009

Revision Date 04-May-2009

Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code 2104000
Product Name ELAST FLOWABLE
Synonyms Guanidine, Dodecyl-, Monoacetate; N-Dodecylguanidine Acetate
Formula Unspecified
CAS Number 2439-10-3 + other ingredients
EPA Registration Number 55260-6
Contact
ACETO AGRICULTURAL
CHEMICALS CORP.
One Hollow Lane
Lake Success, NY 11042-1215
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: regulatory@aceto.com
ChemTrec Emergency Telephone Numbers 1-800-424-9300
1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed. Corrosive to eyes. Irritating to skin. May cause irritation of the mucous membranes. May cause irritation of respiratory tract. Dangerous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Marine pollutant.

Appearance White.

Physical State Liquid.

Odor Negligible

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Mexico - Grade Not available

Potential Health Effects

Principle Routes of Exposure Skin contact, Eye contact.

Acute Effects

Eyes	Corrosive. Risk of serious damage to eyes. Redness. Pain. Tears. Blurred vision. Burning sensation.
Skin	Harmful in contact with skin. Irritating to skin. Irritation may be caused by drying effects on the skin.
Inhalation	Harmful by inhalation. May cause irritation of the mucous membranes. May cause irritation of respiratory tract. Sore throat. Chest pain. Danger of serious damage to health by exposure through inhalation.
Ingestion	Harmful if swallowed. Abdominal pain. Nausea.

Additional Acute Effects None reasonably foreseeable.

Chronic Effects Avoid repeated exposure.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Not available

Interactions with Other Chemicals Not available

Potential Environmental Effects Dangerous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Marine pollutant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number 2439-10-3 + other ingredients

Formula Unspecified

Hazardous Components

Chemical Name	CAS-No	Weight %
Dodine	2439-10-3	39.6

Non-hazardous Components

Chemical Name	CAS-No	Weight %
Other Ingredients	N/A	60.4

4. FIRST AID MEASURES

General Advice

Show this safety data sheet to the doctor in attendance.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or Poison Control Centre immediately.

Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Call a physician or Poison Control Centre immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
Ingestion	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.
Notes to Physician	Treat symptomatically
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties	The product is not flammable.
Suitable Extinguishing Media	Foam. Dry chemical. Carbon dioxide (CO ₂). Water spray. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	Not available
Hazardous Combustion Products	Thermal decomposition or combustion may produce hazardous gases and/or materials.

Explosion Data

Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health 2	Flammability 0	Instability 0
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental Precautions	Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.
Methods for Containment	Not available

Methods for Cleaning up	Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly. Prevent product from entering drains.
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Other Information	Not applicable
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7. HANDLING AND STORAGE

Handling	Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Avoid repeated exposure. In case of insufficient ventilation, wear suitable respiratory equipment.
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Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep out of the reach of children.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Engineering Controls	Ensure adequate ventilation, especially in confined areas.
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Personal Protective Equipment

Eye/face Protection	Tightly fitting safety goggles.
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Skin Protection	Protective gloves. Long sleeved clothing.
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Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment.
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General Hygiene Considerations

General industrial hygiene practice. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. For environmental protection remove and wash all contaminated protective equipment before re-use. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. For additional information consult the EPA Pesticide Label.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White	
Physical State	Liquid	
Odor	Negligible	
pH	5.8	
Flash Point	Not available	
Autoignition Temperature	430°C	
Boiling Point/Range	Not available	
Melting Point/Range	Not available	
Flammability Limits in Air	Lower Not available	Upper Not available
Vapor Pressure	Not available	
Vapor Density	Not available	

Specific Gravity	Not available
Density	1.01
Water Solubility	Not available
Reactivity in Water	Not available
Partition Coefficient (n-octanol/water)	0.96(Log P octanol/water @20°C/pH 7)
Viscosity	800 cPs
Molecular Weight	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Strong acids. Alkalis.
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x).
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral:	> 5,000 mg/kg (rat)
LD50 Dermal:	> 2,000 mg/kg (rabbit)

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dodine	= 660 mg/kg Oral LD50 Rat	= 2100 mg/kg Dermal LD50 Rabbit	

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Irritation	Dermal - Slight irritant ; Ocular - Risk of serious damage to eyes
Corrosivity	Not available
Sensitization	Not available
Neurological Effects	Not available
Mutagenic Effects	Not available
Reproductive Effects	Not available

Developmental Effects	Not available
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Target Organ Effects	Eyes.
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Dangerous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Marine pollutant.

Persistence / Degradability	Not available
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Bioaccumulation / Accumulation	Not available
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Mobility in Soil	Not available
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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Contact waste disposal services. Dispose of in accordance with local regulations. Dispose of in accordance to EPA Pesticide Label Instructions.
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Contaminated Packaging	Dispose of in accordance with local regulations. Dispose of in accordance to EPA Pesticide Label Instructions.
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US EPA Waste Number	Not available
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14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III
Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to DOT.
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Dodine, 40% solution), 9, PG III, Marine Pollutant

TDG

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III
Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to TDG.
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Dodine, 40% solution), 9, PG III, Marine Pollutant

MEX

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(Dodine,40% solution),9,PG III, Marine Pollutant

ICAO

UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
Packing Group	III
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(Dodine,40% solution),9,PG III, Marine Pollutant

IATA

UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
Packing Group	III
ERG Code	9L
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(Dodine,40% solution),9,PG III, Marine Pollutant

IMDG/IMO

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(Dodine,40% solution),9,PG III, Marine Pollutant

RID

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III
Classification Code	M6
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(Dodine,40% solution),9,PG III, Marine Pollutant
ADR/RID-Labels	9

ADR

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III
Classification Code	M6
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(Dodine,40% solution),9,PG III, Marine Pollutant

ADR/RID-Labels 9

ADN

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s
Hazard Class 9
UN-No UN3082
Packing Group III
Classification Code M6
Special Provisions 274, 601
Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Dodine, 40% solution), 9, PG III, Marine Pollutant
Hazard Labels 9
Limited Quantity LQ7
Equipment Requirements PP

15. REGULATORY INFORMATION**International Inventories**

U.S.A. (TSCA) Does not Comply
Canada (DSL) Does not Comply
EU (ELINCS) Does not Comply
EU (EINECS) Does not Comply
Japan (ENCS) Does not Comply
China Does not Comply
Korea (KECL) Does not Comply
Philippines (PICCS) Does not Comply
Australia (AICS) Does not Comply

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)
Dodine	Present	Present	219-459-5	-
Other Ingredients	-	-	-	-

Chemical Name	Japan (ENCS)	China	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
Dodine	2-1775 2-1775	Present	KE-12971	-	Present
Other Ingredients	-	-	-	-	-

This material as a whole is exempt from the TSCA Inventory // FIFRA Regulated Pesticide

USA**Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name

Dodine (CAS #: 2439-10-3)

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes

Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dodine		sn 3579			

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Prepared By	Environmental Health and Safety, Regulatory Affairs
Preparation Date	27-Jan-2009
Revision Date	04-May-2009
Revision Summary	Not available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS