		Page: 1
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDAL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606		Version: 2.3

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Spectrum™ RX3101 MICROBIOCIDAL AGENT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Biocide

Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) EHSProductSafetyTeam@solenis.com	Emergency telephone number 1-844-SOLENIS (844-765-3647) Product Information Contact your local Solenis representative
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)


Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 2
Skin corrosion : Category 1
Serious eye damage : Category 1
Skin sensitisation : Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

		Page: 2
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606		Version: 2.3

H330 Fatal if inhaled.

Precautionary statements :

Prevention:

- P260 Do not breathe mist or vapours.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P284 Wear respiratory protection.

Response:

- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
- P305 + P351 + P338 + P310 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 CENTER/ doctor.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

Disposal:

- P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards


None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (%)
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		Page: 3
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606		Version: 2.3

X-POLYOL/GLYCOL	Trade Secret	Not a hazardous substance or mixture.	>= 60 - < 70
DODECYLGUANIDINE HYDROCHLORIDE	13590-97-1	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Corr. 1; H314 Eye Dam. 1; H318	>= 10 - < 15
ALKYL GLYCOL	Trade Secret	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 5 - < 10
METHYLENE BIS(THIOCYANATE)	6317-18-6	Acute Tox. 3; H301 Acute Tox. 1; H330 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 5 - < 10
POTASSIUM SALT	Trade secret	Acute Tox. 3; H331	>= 0.1 - < 0.5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES


- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
Call a physician or poison control centre immediately.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

	Page: 4
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
irritation (nose, throat, airways)
loss of appetite
Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
Fatal if inhaled.
Causes severe burns.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO2)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO2)
Hydrocarbons
Alcohols
ethers
Ketones
May form:
Ammonia
hydrogen chloride
Nitrogen oxides (NOx)
organic compounds
Aldehydes
Organic acids
Hydrogen cyanide (hydrocyanic acid)
Sulphur oxides
toxic fumes

	Page: 5
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	SDS Number: 000000270050
	Version: 2.3


- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Prevent unauthorized access.

 Strong bonds. Trusted solutions.		Page: 6
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606		Version: 2.3

Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
X-POLYOL/GLYCOL	Trade Secret	TWA (aerosol)	10 mg/m ³	US WEEL
ALKYL GLYCOL	Trade Secret	TWA	10 mg/m ³	US WEEL

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.


A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:
Impervious clothing
Chemical resistant apron

	Page: 7
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear resistant gloves (consult your safety equipment supplier).
Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
When using do not eat or drink.
Ensure that eyewash stations and safety showers are close to the workstation location.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution

Colour : yellow

Odour : No data available

Odour Threshold : No data available

pH : 4.7

Melting point/freezing point : < -4 °F / < -20 °C

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available


Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

	Page: 8
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

Relative density : 1.095 (73 °F / 23 °C)

Density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.
No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.


Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat
UV light.
Freezing temperatures.
Heat, flames and sparks.
Exposure to sunlight.
Exposure to moisture

Incompatible materials : Avoid contact with:
Cyanides
isocyanates
potassium hydroxide
Strong acids
strong alkalis
Strong bases
Strong oxidizing agents
sulfides
UV light.

Hazardous decomposition products : Alcohols
Carbon monoxide

	Page: 9
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDAL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

Carbon dioxide (CO₂)
ethers
Hydrocarbons
Ketones
May form:
Ammonia
Nitrogen oxides (NO_x)
Hydrogen chloride gas
Aldehydes
dioxolanes
Organic acids
Hydrogen cyanide (hydrocyanic acid)
Sulphur oxides
toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.
Fatal if inhaled.

Components:

X-POLYOL/GLYCOL:

Acute oral toxicity : LD50 (Rat): > 20 g/kg
Acute dermal toxicity : LD50 (Rabbit): > 20 g/kg

DODECYLGUANIDINE HYDROCHLORIDE:


Acute oral toxicity : LD50 (Rat, male and female): 1,456 mg/kg
Acute inhalation toxicity : LC50 (Rat): 0.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

ALKYL GLYCOL:

Acute oral toxicity : LD50 (Rat): 21.0 - 33.7 g/kg
Acute dermal toxicity : LD50 (Rabbit): 28 g/kg

METHYLENE BIS(THIOCYANATE):

Acute oral toxicity : LD50 (Rat, male and female): 68.3 mg/kg
Acute inhalation toxicity : LC50 (Rat): 0.0077 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

	Page: 10
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

POTASSIUM SALT:

Acute oral toxicity : LD50 (Rat): 3,250 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 5.6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : May cause skin irritation in susceptible persons.
Causes severe skin burns and eye damage.

Components:

X-POLYOL/GLYCOL:

Result : Not irritating to skin

DODECYLGUANIDINE HYDROCHLORIDE:

Result : Corrosive to skin

ALKYL GLYCOL:

Result : Not irritating to skin

METHYLENE BIS(THIOCYANATE):

Result : Corrosive to skin

POTASSIUM SALT:

Result : Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.


Product:

Remarks : May cause irreversible eye damage.

Components:

X-POLYOL/GLYCOL:

Result : Not irritating to eyes

	Page: 11
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
Spectrum™ RX3101 MICROBIOCIDAL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	SDS Number: 000000270050 Version: 2.3

DODECYLGUANIDINE HYDROCHLORIDE:

Result : Corrosive to eyes

ALKYL GLYCOL:

Result : Possibly irritating to eyes

METHYLENE BIS(THIOCYANATE):

Result : Corrosive to eyes

POTASSIUM SALT:

Result : Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : May cause allergic skin reaction.

Components:

DODECYLGUANIDINE HYDROCHLORIDE:

METHYLENE BIS(THIOCYANATE):

Germ cell mutagenicity

Not classified based on available information.

Components:

DODECYLGUANIDINE HYDROCHLORIDE:


Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative

METHYLENE BIS(THIOCYANATE):

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Carcinogenicity

Not classified based on available information.

	Page: 12
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDAL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

- IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity


Product:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.44 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

NOEC (Pimephales promelas (fathead minnow)): 1.1 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.44 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 0.06 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

	Page: 13
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	SDS Number: 000000270050 Version: 2.3

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.
Chronic aquatic toxicity : Not classified based on available information.

Components:

X-POLYOL/GLYCOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 20,000 mg/l
Exposure time: 96 h
Test Type: static test

DODECYLGUANIDINE HYDROCHLORIDE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.57 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0178 mg/l
Exposure time: 48 h

ALKYL GLYCOL:


Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 29,485 - 39,339 mg/l
Exposure time: 96 h
Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test

METHYLENE BIS(THIOCYANATE):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.21 mg/l
Exposure time: 96 h
Test Type: static test
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.07 mg/l
Exposure time: 48 h
Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.0115 mg/l
Exposure time: 72 h
M-Factor (Acute aquatic toxicity) : 10

POTASSIUM SALT:

Toxicity to fish : LC50 (Zebra danio (Danio rerio)): > 496.35 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes

	Page: 14
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDAL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): > 459.5 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Persistence and degradability

Components:

X-POLYOL/GLYCOL:

Biodegradability : Result: Readily biodegradable.

DODECYLGUANIDINE HYDROCHLORIDE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

ALKYL GLYCOL:

Biodegradability : Biodegradation: 81 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

METHYLENE BIS(THIOCYANATE):

Biodegradability : aerobic
Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 30 d

Bioaccumulative potential

Components:

ALKYL GLYCOL:

Partition coefficient: n-octanol/water : log Pow: -0.92


Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

		Page: 15
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606		Version: 2.3

Components:

DODECYLGUANIDINE HYDROCHLORIDE:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION


International Regulations

IATA-DGR

UN number : UN 2927
 Proper shipping name : Toxic liquid, corrosive, organic, n.o.s. (DODECYLGUANIDINE HYDROCHLORIDE)
 Class : 6.1
 Subsidiary risk : 8
 Packing group : II
 Packing instruction (cargo aircraft) : 660
 Packing instruction (passenger aircraft) : 653
 Marine pollutant : yes

IMDG-Code

UN number : UN 2927
 Proper shipping name : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (DODECYLGUANIDINE HYDROCHLORIDE)
 Class : 6.1
 Subsidiary risk : 8
 Packing group : II
 EmS Code : F-A, S-B

		Page: 16
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606		Version: 2.3

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN number : UN 2927
 Proper shipping name : Toxic liquids, corrosive, organic, n.o.s.
 (DODECYLGUANIDINE HYDROCHLORIDE)
 Class : 6.1
 Subsidiary risk : 8
 Packing group : II
 ERG Code : 154
 Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
 Respiratory or skin sensitization
 Skin corrosion or irritation
 Serious eye damage or eye irritation


SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment performed on the product as delivered and when used as intended.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory
 TSCA : Exempt
 AIIC : All components are listed on the inventory, regulatory obligations/restrictions apply

		Page: 17
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606		Version: 2.3

- DSL : Exempt
- ENCS : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

TSCA list

Exempt- This product is exempt from Significant New Use Rule requirements. See information under Biocides for product registration information.”

Exempt-This product is exempt from TSCA 12(b) requirements. See information under Biocides for product registration information.”

Biocides

EPA Reg. # 74655-41

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger, Corrosive., Causes irreversible eye damage., Causes skin irritation., Harmful if absorbed through skin., Harmful if inhaled., Harmful if swallowed., Do not get in eyes, on skin or on clothing., Do not breathe vapor or spray mist., Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

SECTION 16. OTHER INFORMATION

Further information


Revision Date : 09/29/2022

Full text of H-Statements

- H301 : Toxic if swallowed.
- H302 : Harmful if swallowed.
- H314 : Causes severe skin burns and eye damage.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H330 : Fatal if inhaled.
- H331 : Toxic if inhaled.

Full text of other abbreviations

Acute Tox. : Acute toxicity

 Strong bonds. Trusted solutions.		Page: 18
SAFETY DATA SHEET		Revision Date: 09/29/2022
		Print Date: 07/17/2024
		SDS Number: 000000270050
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Eye Dam. : Serious eye damage
 Skin Corr. : Skin corrosion
 Skin Sens. : Skin sensitisation
 US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
 US WEEL / TWA : 8-hr TWA

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet


Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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	Page: 19
SAFETY DATA SHEET	Revision Date: 09/29/2022
	Print Date: 07/17/2024
	SDS Number: 000000270050
Spectrum™ RX3101 MICROBIOCIDE AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 876606	Version: 2.3

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