

Material Safety Data Sheet Ryanodine

MSDS# 01126

ection 1 - Chemical Product and Company Identification
Ryanodine
AC328500000, AC328500010
Ryanadol; 3-(1 H-pyrrole-2-carboxylate)
Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium
Acros Organics One Reagent Lane Fair Lawn, NJ 07410
800-ACROS-01
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201-796-7100
800-424-9300
rope: 703-527-3887
IS

Section 2 - Composition, Information on Ingredients

CAS#: Chemical Na %: EINECS#:	me:	15662-33-6 Ryanodine 239-732-2			
	Hazard Symbols:	 XN			
	*				
	Risk Phrases:	20/22			
		Section 3 - Hazards Identification			
		EMERGENCY OVERVIEW			
		Not available Target Organs: None.			
Potential H	Iealth Effects				
Eye:	May cause eye irritation.				
Skin:	May cause skin irritation.				
Ingestion:	Harmful if swallowed.				
Inhalation:	Harmful if inhaled. The toxicological properties of this substance have not been fully investigated.				
Chronic:					
		Section 4 - First Aid Measures			
	Eluch avec w	the planty of water for at least 15 minutes, econorienally lifting the upper and lowe			

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated

	clothing and shoes.					
Ingestion:	Get medical aid. Wash mouth out with water.					
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.					
Notes to Physician:						
Section 5 - Fire Fighting Measures						
(reneral information)		any fire, wear a self-contai oved or equivalent), and fu	U 11	n pressure-demand, MSHA/NIOSH		
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.			al foam.			
Autoignition Temperature: Not available						
	Point: Not a					
Explosion Limits: Lower:						
Explosion Limits: Upper: Not available						
NFPA Ra	ating: Not p	oublished				
		Section 6 - A	ccidental Release Measur	res		
General Informat	tion:	Use proper personal protec	tive equipment as indicate	ed in Section 8.		
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.			le disposal container.			
		Section 7	- Handling and Storage			
Handling: Avo	oid breathing	g dust, mist, or vapor. Avoi	id contact with skin and ey	/es.		
Storage: Stor	e in a cool,	dry place. Store in a tightly	y closed container. Deep f	reeze (below -20°C).		
Section 8 - Exposure Controls, Personal Protection						
Chemical	Name	+ ACGIH 	NIOSH	OSHA - Final PELs		
Ryanodine			none listed	none listed		

OSHA Vacated PELs: Ryanodine: None listed

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Not available

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid Color: off-white Odor: Not available pH: Not available Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available

		Boiling Point: Not available					
	Fi	eezing/Melting Point: 219-220 deg C					
Decomposition Temperature: Not available							
Solubility in water: insoluble							
Specific Gravity/Density:							
Molecular Formula: C25H35NO9							
		Molecular Weight: 493.2463					
		Section 10 - Stability and Reactivity					
Chemical Stabi	lity:	Not available					
Conditions to A	Avoid:	Incompatible materials.					
Incompatibiliti	es with Other Materials	Not available					
Hazardous Dee	composition Products	Nitrogen oxides, carbon monoxide, carbon dioxide.					
Hazardous Poly	ymerization	Will not occur.					
		Section 11 - Toxicological Information					
RTECS#:	CAS# 15662-33-6: VI	M4025000					
	RTECS:	al, mouse: $LD50 = 650 \text{ mg/kg};$					
	Oral, rabbit: $LD50 = 65$						
LD50/LC50:	Oral, rat: $LD50 = 750 r$						
	Skin, rabbit: $LD50 = >2$	l gm/kg;					
Carcinogenicity	v: Ryanodine - Not listed	as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.					
Other:	See actual entry in RTE	CS for complete information. The toxicological properties have not been fully					
Other.	investigated.						
		Section 12 - Ecological Information					
Not available		Section 13 - Disposal Considerations					
Dispose of in a	manner consistent with f	ederal, state, and local regulations.					
Dispose of in a		Section 14 - Transport Information					
US DOT		Section 14 - Transport mormation					
Shipping Name: N	Not regulated as a hazardo	us material					
Hazard Class:							
UN Number: Packing Group:							
Canada TDG							
Shipping Name: N	lot available						
Hazard Class:							
UN Number: Packing Group:							
Tacking Group.							
		Section 15 - Regulatory Information					
European/Inter	national Regulations						
European	Labeling in Accordance	with EC Directives					
Hazard Symbols: XN							
Risk Phrases:							
R 20/22 Harmful by inhalation and if swallowed.							
Safe	Safety Phrases:						
Safety Finases. S 37/39 Wear suitable gloves and eye/face protection.							
WGK (W	Vater Danger/Protection)						
CAS# 15662-33-6: Not available							
$\nabla A S \pi$ 15002-55-0. Not available							

Canada

Canadian WHMIS Classifications: Not available

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

CAS# 15662-33-6 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 15662-33-6 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Other Information MSDS Creation Date: 3/11/1999 Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
