

Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

(T)		WHMIS Class D-2: Material causing other toxic effects.		HCS Cla	ss: Irı	ritating substance.
WHMIS (Pictogram	ms)	WHMIS (Classification)				HCS
Section 1. Che	emica	Product and Company Identification				
Product Name/ Trade name	Riva	al	Cod	e		673
Synonym	Not a	/ailable.	CAS	S #		Mixture.
Chemical Family	Not a	/ailable.	Vali	dation Da	ate	8/22/2005
Chemical Formula	Not a	oplicable.	Prin	t Date		8/22/2005
Manufacturer/ Supplier	1001 Toled	Corporation Brown Avenue o, Ohio 43607 333-2156	In Ca Emer	ise of gency	CHEI	MTREC (800) 424-9300
TSCA	TSCA 1	nventory: All components listed or are exempt from listing.				
DSL/ NDSL	All con	nponents listed unless noted elsewhere on this MSDS]	Prote	ective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
N-Methyl-2-Pyrrolidone Dimethylethanolamine	872-50-4 108-01-0	5 - 10 1 - 5	Not available. ACGIH TLV (United States). TWA: 5 ppm 8 hour(s). STEL: 25 ppm 15 minute(s).	Not available. Not available.
Dipropylene Glycol Methyl Ether	34590-94-8	1 - 5	ACGIH TLV (United States). TWA: 100 ppm 8 hour(s). STEL: 150 ppm 15 minute(s). OSHA PEL (United States). TWA: 100 ppm 8 hour(s). ACGIH TLV (United States). TWA: 100 ppm 8 hour(s).	Not available.

Section 3. Hazards	Section 3. Hazards Identification		
Potential Acute Health Effects	Hazardous in case of eye contact (irritant), of ingestion. Slightly hazardous in case of skin contact (irritant). Over exposure by inhalation May cause headache, dizziness and nausea. Irritation of the product in case of eye contact: Irritant. May aggravate existing eye disorders Irritation of the product in case of eye contact: Irritant. May aggravate existing eye disorders Irritation of the product in case of skin contact: Cases drying of the Skin. May aggravate existing eye conditions.		
Potential Chronic Health Effects	May aggravate existing respiratory conditions such as asthma. Repeated skin exposure can produce local skin destruction, or dermatitis. Over-exposure by inhalation may cause respiratory irritation.		
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.		

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.	
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Ingestion	Contact a poison control center immediately for treatment adivce. Do not induce vomiting unless instructed to do so be poison control center or doctor. Do not give anything by mouth to an unconscious person.	

Section 5. Fire Fighting Measures		
Products of Combustion	Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	Not available.	
Special Remarks on Explosion Hazards	Not available.	

Section 6. Accidental Release Measures		
Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.	
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves.	

Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.	
Incompatibility	Reactive with oxidizing agents, acids.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 48.889°C (120°F). S2- Keep out of the reach of children. Not for use or storage in or around the home.	

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations

and safety showers are proximal to the work-station location.

Personal Protection

Eyes Safety glasses.

Body No special protective clothing is required.

Respiratory A respirator is not needed under normal and intended conditions of product use.

Hands Gloves.

Protective Clothing (Pictograms)



Exposure Limits See Section 2 For Applicable Exposure Limits

Section 9. Physic	al and Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Characteristic. (Slight.)
Molecular Weight	Not applicable.	Taste	Not available.
рН	Not available.	Color	Amber. (Light.)
Boiling/Condensation Point	137.22°C (279°F)		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based o	n data for:	Water.
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.0473 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
VOC	301 (g/l).		
Evaporation Rate	<1 compared to Butyl acetate.		
Dispersion Properties	See solubility in water, methanol, acetone.		
Solubility	Easily soluble in methanol, acetone. Partially soluble in cold water, hot water.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	Closed cup: >176.67°C (350°F).		
Flammable Limits	Not available.		

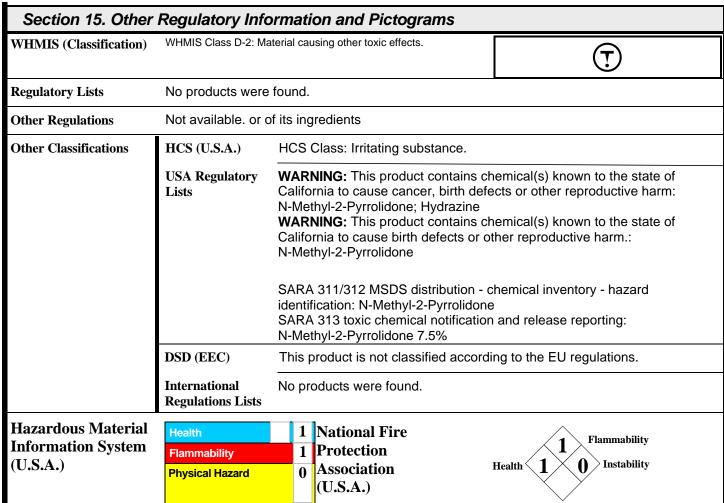
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Not available.

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Incompatibility with Various Substances	Reactive with oxidizing agents, acids.	
Hazardous Decomposition Products	Not available.	

Section 11. Toxicological Information		
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Acute Effects on Huma	ns	
H	Eyes Hazardous in case of eye contact (irritant).	
S	Skin Sensitization of the product: Not available. Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.	
Inhala	tion Not available.	
Inges	tion Hazardous in case of ingestion.	
Chronic Effects on Humans	May aggravate existing respiratory conditions such as asthma. Repeated skin exposure can produce local skin destruction, or dermatitis. Over-exposure by inhalation may cause respiratory irritation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Not available.	
Toxicity of the Products of Biodegradation	Not available.	
Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations. Waste Stream Not available.



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Specific Hazard

Section 16. Other Information

Validated by CRushton on 8/22/2005.

Verified by CRushton.

Printed 8/22/2005.

Information Contact Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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