



Safety Data Sheet

REFLECT SHINE RTU (AP-220)

Section 1. Identification

Product Identifier	REFLECT SHINE RTU (AP-220)		
Synonyms	N/A		
Manufacturer Stock Numbers	N/A		
Recommended use	FOR GLASS/WINDOWS COATING; CREATES HYDROPHOBIC SURFACE TO PREVENT STREAKING AND WATER SPOTS		
Uses advised against	N/A		
Manufacturer Contact Address	JBS Industries 2550 Henkle Drive Lebanon, OH, 45036 USA		
	Phone	Emergency Phone	Fax
	(513) 228-2800	(800) 424-9300 CHEMTREC	(513) 228-2810

Section 2. Hazards Identification

Classification	EYE DAMAGE/IRRITATION - Category 2B FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3
Signal Word	Danger
Pictogram	Two hazard pictograms are shown side-by-side. The first is a red diamond containing a black flame, representing a flammable liquid. The second is a red diamond containing a black exclamation mark, representing a general hazard or irritant.
Hazard Statements	Causes eye irritation Causes skin irritation Highly flammable liquid and vapor May cause respiratory irritation; or May cause drowsiness or dizziness
Precautionary Statements	

Response	<p>Call a poison center or doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, dry chemicals, water spray to extinguish. Take off contaminated clothing and wash it before reuse.</p>
Prevention	<p>Avoid breathing dust/fume/gas/mist/ vapors/spray. Ground/bond container and receiving equipment. Keep away from heat. Keep container tightly closed. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/.../equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash exposed skin, hair, clothing thoroughly after handling. Wear protective gloves. Wear protective gloves/eye protection/face protection</p>
Storage	<p>Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.</p>
Disposal	<p>Dispose of contents/container in accordance with local, state, and federal law.</p>
Ingredients of unknown toxicity	<p>0%</p>
Hazards not Otherwise Classified	<p>Causes eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage. Can cause gastrointestinal irritation with nausea, vomiting and diarrhea. Systemic toxicity and acidosis can occur. Advanced stages can lead to respiratory failure, kidney failure, coma and death. Causes respiratory tract irritation. Can cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation. Systemic toxicity and acidosis can occur. Advanced stages can lead to respiratory failure, kidney failure, coma and death.</p> <p>No Data Available</p>

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-63-0	ISOPROPYL ALCOHOL	4% - Max
64-17-5	ETHYL ALCOHOL 85%	80% - 85%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Skin	Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.
Ingestion	DO NOT induce vomiting. If vomiting does occur, have the victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.
Eye	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	SMALL FIRE: Use dry chemicals, CO ₂ , water spray or alcohol resistant foam. LARGE FIRE: Use water spray, water fog or alcohol resistant foam. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Unsuitable Extinguishing Media	N/A
Fire and Explosion Hazards	May produce a floating fire hazard. Static ignition hazard can result from handling and use. Vapors may travel to source of ignition and flash back.
Specific Hazards	Carbon monoxide is expected to be the primary hazard.

Section 6. Accidental Release Measures

Containment	Remove all ignition sources.
Evacuate	If this material is released into a work area, evacuate the area immediately.
Collect	Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust.
Clean-up	Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.
Containment	Clean up spills immediately, observing precautions in Protective Equipment section.
Reporting	Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Section 7. Handling and Storage

HANDLING:	Keep containers closed. Avoid eye contact by use of chemical safety goggles and/or full faceshield where splashing is possible. Wear protective clothing appropriate for work situation to minimize skin contact. Use only in a well-ventilated area.
Handling	Do not breathe (dust, vapor, mist, gas). Do not get in eyes, on skin or clothing. Ground and bond containers when transferring material. Use only in a well-ventilated area.
Storage	Store in a tightly closed container. Store in a cool dry place. Store away from heat. Keep away from sources of ignition.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	ISOPROPYL ALCOHOL	200ppmTWA	400ppm TWA	N/A
	ETHYL ALCOHOL 85%	1000ppm	1000ppm	N/A
Personal Protective Equipment	Goggles, Gloves			
Engineering controls	Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use explosion-proof ventilation equipment.			
Respirators	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.			
Skin Protection	Neoprene gloves			
Other clothing	Wear safety glasses with side shields (or goggles) and a face shield.			

Section 9. Physical and Chemical Properties

Physical State	LIQUID
Color	CLEAR
Odor	ALCOHOL
Odor Threshold	N/A
Solubility	SOLUBLE
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	0.802
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	PMCC 65 F
FP Method	N/A
Ph	N/A
Melting Point	-95 F
Boiling Point	70 F
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	FLAMMABLE
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	mm Hg 25 @ 33 C
Vapor Density	>1

Section 10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Reactivity	Vapors may form explosive mixture with air.
Incompatible Materials	Alkali metals, Ammonia, Oxidizing agents, Peroxides, Strong Inorganic Acids.
Conditions to Avoid	Heat, flames, and sparks. Extreme temperatures and direct sunlight.
Hazardous Decomposition Products	Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

Section 11. Toxicological Information

Signs and Symptoms of Exposure	Central nervous system depression, narcosis, damage to the heart. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Acute Toxicity	LC50 Inhalation, Rat, 20000 ppm, 10hrs. LC50 Oral, Rat, 7060mg/Kg BWT LDLo Oral, Human, 1400 mg/Kg BWT
Reproductive Toxicity	Reproductive toxicity-Human-female-Oral. Effects on Newborns-measured low appgar scores and showed signs of alcohol dependence.
Specific target organ toxicity-single exposure	Inhalation-May cause respiratory irritation.-Lungs
Carcinogenicity	Not classifiable as a human carcinogen according to IARC, ACGH, NTP, or OSHA.

Section 12. Ecological Information

Acute Fish Toxicity	LC50/96 HOUR Oncorhynchus (rainbow trout) > 10,000 mg/l LC50/96 HOUR Pimephales promelas (fathead minnow) > 13,400 mg/l
Toxicity to Aquatic Plants	Growth inhibition / 96 HOURS Chlorella vulgaris (Fresh water algae) 1,000 mg/l
Toxicity to Microorganisms	Toxicity Threshold/Pseudomonas putida 6,500 mg/l Summary: Inhibition of cell multiplication begins.

Section 13. Disposal

WASTE DISPOSAL METHOD:	For proper disposal of waste, refer to federal and state regulations.
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Section 14. Transport Information

UN Number	1987
UN Proper Shipping Name	ALCOHOL,N.O.S.,(CONTAINS ETHYL ALCOHOL, ISOPROPYL ALCOHOL)
DOT Classification	3 FLAMMABLE
Packing Group	II

Section 15. Regulatory Information

Global Inventories	This product is included in the following inventories: USA (TSCA) Canada (DSL) Australia (AICS) Korea (KECL) Philippines (PICCS) Japan (ENCS) China (IECS) European Union (EINECS) New Zealand (NZIoC)
EPA SARA Title III Chemical Listings:	SARA 313 Components: N/A SARA 311/312 Hazards: Acute Health Hazard Chronic Health Hazard Fire Hazard
Ingredient(s)-State Regulations	Ethanol CAS-No. 64-17-5 New Jersey - Right to Know Components Pennsylvania - Right to Know Components Massachusetts - Right to Know Components California Prop 65 Components WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (Ethyl Alcohol) CAS No. 64-17-5

Section 16. Other Information

Revision Date	1/7/2016
DISCLAIMER:	The information contained herein is believed to be accurate and is offered in good faith. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Mixing this product with any other materials may change the characteristics such as flash point, flammability or health effects. Because product use is beyond our control, no warranty is given, expressed or implied.