SAFETY DATA SHEET

1. Identification of the Substance/Mixture and of the Company/ Undertaking

Product Name: **LAZER**

Product Code: **BRLAZE12 BRLAZE04 BRLAZE05**

Company Name: **Randall Industries, LLC**
4565 Hemlock Road
Cherry Tree, PA 15724

Phone: **814-743-6630**
Emergency 24 hour: **1-800-535-5053**

Proper Shipping Name: **Not Regulated**
Identification No: **Not Applicable**
Hazard Class:
Generic Description: **Glass Cleaner**

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2. Hazards Identification

GHS Classification

Flammable liquids : **Category 3**
Eye irritation : **Category 2A**

GHS Label elements
Hazard pictograms :

Signal word : **Warning**
Hazard statements :

H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.

Precautionary statements :
Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

3 Composition / Information on Ingredients

Pure substance/mixture: **Mixture**

CAS #	Chemical Name	Concentration
67-63-0	2- propanol	10-30
111-76-2	ethylene glycol monobutyl ether	1 - 5
9016-45-9	alkyl phenol ethoxylate	0.1 - 1
1376-21-6	ammonium hydroxide	0.1 - 1
Proprietary Ingredient	coloring agent	<0.01

4 First Aid Measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician. Move to fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately. If symptoms persist, call a physician. Wash clothing before reuse. Wash off immediately with plenty of water for at least 15 minutes.

In case of eye contact : Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If in eyes, rinse with water for 15 minutes.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

5 Firefighting Measures

Suitable extinguishing media : Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Water spray

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 dioxide (CO2) Carbon monoxide Smoke Nitrogen oxides (NOx) Sulphur oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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 :
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7 Handling and Storage

Advice on safe handling: **Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.**

Conditions for safe storage: **No smoking. 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. Electrical installations / working materials must comply with the technological safety standards.**

Materials to avoid: **Keep away from oxidizing agents and strongly acid or alkaline materials.**

8 Exposure Control and Personal Protection

Ingredients with workplace control parameters

EXPOSURE			
CAS No.	**Ingredient**	**Source**	**Value**
0000067-63-0	Isopropyl Alcohol	OSHA TWA	400 ppm (980 mg/m3)STEL 500 ppm
		ACGIH TWA	200 ppm STEL: 400 ppm Revised 2003,
		NIOSH TWA	400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)

CARCINOGEN DATA			
CAS No.	**Ingredient**	**Source**	**Value**
0000067-63-0	Isopropyl Alcohol	OSHA	Select Carcinogen:No
		NTP	Known: No Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

Personal protective equipment

Eye protection:	**Safety glasses. Ensure that eyewash stations and safety showers are close to the workstation location.**
Hand protection: of the protective gloves. .	**The suitability for a specific workplace should be discussed with the producers**
Skin protection:	**No special protective equipment required.**
Respiratory protection:	**Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Hand protection : personal respiratory protective equipment normally required.**
Hygiene measures:	**Handle in accordance with good industrial hygiene and safety practice. When using do not smoke. Wash face, hands and any exposed skin thoroughly after handling.**
Engineering measures:	**Good general ventilation should be sufficient to control worker exposure to airborne contaminants.**

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9 Physical and Chemical Properties

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Physical state	**Liquid**
Color	**Blue**
Odor	**Ammonia**
pH	**10.0-12.0**
Flash point	**140 deg. F**
Explosion limits	**N/A**
Flammability (solid, gas)	**N/A**
Melting point	**N/D**
Boiling point	**200 (93)**
Evaporation rate (butyl acetate = 1)	**2.4**
Vapor pressure	**32**
Vapor density	**2.1**
Solubility	**Easily soluble in the following materials: cold water and hot water.**
Partition coefficient n-octanol/water	**Not available.**
Auto-ignition temperature	**Not available.**
Viscosity	**Water like.**

10 Stability and Reactivity

Stability	**Stable under normal conditions.**
Conditions to avoid:	**Vapors may form explosive mixture with air.**
Incompatibility - Materials to Avoid:	**Keep away from strong oxidizing agents and strongly acid or alkaline materials.**
Hazardous decomposition products:	**Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus**

11 Toxicological Information

Data for Isopropyl Alcohol

Acute toxicity
Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Isopropyl Alcohol - (67-63-0)	4,710.00, Rat - Category: 5	12,800.00, Rat - Category: NA	72.60, Rat - Category: NA	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Data for Isopropyl Alcohol

Hazard Class	Conclusion / Remarks
Inhalation	
Acute toxicity: (Rat) 6 hour(s) LC50> 25000 mg/m3 (Vapor)	**Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 403**
Irritation: No end point data for material	**Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.**
Acute toxicity (Rat): LD50 5840 mg/kg	**Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 401**
Skin	
Acute toxicity (Rabbit): LD50 13900 mg/kg	**Minimally Toxic. Based on test data for the**

	material. Test(s) equivalent or similar to OECD Guideline 402
Skin Corrosion/Irritation: Data Available	May dry the skin leading to discomfort and dermatitis. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 404
Eye	
Serious Eye Damage/Irritation: Data available.	Irritating and will injure eye tissue. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 405
Sensitization	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: Data available.	Not expected to be a skin sensitizer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 406
Aspiration: Data available.	May be harmful if swallowed and enters airways. Based on physico-chemical properties of the material.
Germ Cell Mutagenicity: Data available.	Not expected to be a germ cell mutagen. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 471 474 476
Carcinogenicity: Data available.	Not expected to cause cancer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 451
Reproductive Toxicity: Data available.	Not expected to be a reproductive toxicant. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 414 415 416
Lactation: No end point data for material.	Note expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single exposure: No end point data for material.	May cause drowsiness or dizziness.
Repeated Exposure: Data available.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 413

12 Ecological Information

DATA FOR ISOPROPYL ALCHOHOL

Toxicity to fish:	>1,400.00, Lepomis Macrochirus : 96 h LC50 Fish
Toxicity to algae:	100.00, Scenedesmus subspicatus:72 h EC50: 18 mg/l
Toxicity to crustaceans:	100.00, Daphnia magna: 48 h EC50 crustacea, mg/l
Persistence and degradability:	no data available.
Bioaccumulative potential:	no data available.
Mobility in soil:	no data available.
Other adverse effects:	no data available.

13 Disposal Information

Waste Disposal Method:	**Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.**
Disposal considerations:	**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.**

14 Transport Information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)	**Not dangerous goods.**
Sea transport (IMDG/IMO)	**Not dangerous goods.**

15 Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ.
SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.
SARA 311/312 Hazards : Fire Hazard Acute Health Hazard
SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 : 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 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. The components of this product are reported in the following inventories:
TSCA On TSCA Inventory

16 Other Information

NFPA	**Health Hazards: 1**	**Flammability: 3**	**Instability: 0**	**Special: N/A**
HMIS	**Health Hazards: 1**	**Flammability: 3**	**Physical Hazards: 0**	

Disclaimer:
The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

6/7/17
End of Safety Data Sheet