

SAFETY DATA SHEET

Issuing Date: June 12, 2015

Revision Date: June 10, 2015

Revision Number: 2

SECTION 1: IDENTIFICATION

Product Identifier: Master Well Comb Master Blue After Shave Toner

Recommended Use: After Shave Toner for Men

Supplier Address:

Master Well Comb
1830 N. Lamon Avenue
Chicago, IL 60639
Telephone: 773-745-7700
Fax: 773-745-6400
Email: www.krewcomb.com

Emergency Telephone Number: 1-773-745-7700

SECTION 2: HAZARD(S) IDENTIFICATION

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture:

GHS Classification

- Flammable Liquids Category 2
- Eye Irritation Category 2
- Specific Target Organ Toxicity Single Exposure Category 3: Narcotic Effects

GHS Classification Scale (1 = severe hazard, 4 = slight hazard)

GHS Label elements, including precautionary statements

Hazard Symbols



Signal Word

Danger

Hazard Statements

- Highly flammable liquid and vapor – H225
- Causes serious eye irritation – H319
- May cause respiratory irritation – H335
- May cause drowsiness or dizziness – H336

Precautionary Statements – Prevention

Keep away from heat, sparks, open flame and/or hot surfaces. No smoking. P-210
Keep container tightly closed. P-233
Keep cool. P-235

Precautionary Statements – Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P-304+P-340
Call a POISON CENTER or Doctor if you feel unwell. P-312
IF ON SKIN: Wash with plenty of soap and water. Rinse skin with water/shower. P-302+P352
Take off contaminated clothing and wash before reuse. If skin irritation persists: Get medical attention.
P-362

Precautionary Statements – Storage

Store in a well-ventilated place. Keep container tightly closed. P-403+P-233

Precautionary Statements – Disposal

Dispose of in accordance with local, regional, national, and/ or international regulations. P-501

Hazards not otherwise classified

Under United States Regulations (29 CFR 1910.1200 – Hazard Communication Standard), this product is considered hazardous.

Prolonged or repeated use may cause skin to dry or crack.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt. %</u>
Ethyl Alcohol	64-17-5	90 – 95%
Tert-Butyl Alcohol	75-65-0	0.1%
Brucine Sulfate (2:1)	5787-00-8	0.001%

SECTION 4: FIRST AID MEASURES



General advice: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 2 of this SDS.

Eye Contact: Flush with plenty of water, also under eyelids. If symptoms persist, call a Physician.

Skin Contact: May cause irritation to broken skin. Wash with soap and water. If irritation persists, consult a physician.

Inhalation: Remove victim to fresh air and place in a comfortable breathing position. Contact a Physician if unwell.

Ingestion: Do not induce vomiting. Drink plenty of water. If symptoms persist contact a Physician.

Most important symptoms and effects, both acute and delayed

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Symptoms

Ingestion of the liquid or exposure to high airborne concentrations can cause central nervous system (CNS) effects ranging from excitation, dizziness, drowsiness, and headache to deep anesthesia, respiratory arrest, and death in cases of severe over-exposure. Repeated or prolonged contact with skin may cause defatting and drying of the skin which may result in dermatitis.

Treatment

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. There is no specific antidote. Gastric lavage can be used if done shortly after ingestion. GI decontamination with charcoal is not effective unless other toxic co-ingestants are involved.

SECTION 5: FIRE FIGHTING MEASURES

Flammable properties

Flash point	55 - 61 °F (13 - 16 °C) Method: ASTM D 56
Autoignition temperature	685 °F (363 °C) at 1,013 hPa (760 mm Hg)
Lower explosion limit	3.3 vol%
Upper explosion limit	19 vol%

Suitable Extinguishing Media

SMALL FIRE: Use dry chemicals, CO₂, water spray or alcohol-resistant foam

LARGE FIRE: Use water spray, water fog or alcohol-resistant foam

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Eliminate all sources of ignition.

Prevent entry into waterways, sewers, basements or confined areas.

Ethanol vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may only be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. When exposed to ignition source in air, vapors can burn in open or explode if confined.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

When fighting a fire, notify environmental authorities if liquid enters sewers or public waters.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Structural firefighter's protective clothing will only provide limited protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Clean-up to be performed only by trained and properly equipped personnel. Wear recommended personal protective equipment. Eliminate all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas.
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Environmental precautions

Environmental precautions

If necessary, all contaminated waste water must be treated in a municipal or industrial wastewater treatment plant before release to surface water.

Chemical removal by air and water pollution control devices must meet the minimum efficiency requirements needed to reduce exposures to an acceptable level. The discharge of treatment plant effluent to rivers and oceans must achieve the dilution ratio needed to reduce exposures to an acceptable level.

Methods and material for containment and cleaning up

Methods for Containment	Highly flammable liquid and vapor. Eliminate all sources of ignition. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.
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SECTION 7: HANDLING AND STORAGE



Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Store in a cool, dry area.

Incompatible Products Do not expose to excess heat or open flame.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Ingredients with workplace control parameters

Occupational Exposure Limits

Ingredients	CAS-No.	Type	Limit Value	Basis Revision Date
Ethyl alcohol	64-17-5	STEL	1,000 ppm	US (ACGIH) 2012
Ethyl alcohol	64-17-5	IDLH	3,300 ppm	NIOSH September 2007

Remarks: 10% LEL

Ethyl alcohol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	US (OSHA) June 23, 2006
TERT-BUTYL ALCOHOL	75-65-0	TWA	100 ppm	US (ACGIH) 2012
TERT-BUTYL ALCOHOL	75-65-0	IDLH	1,600 ppm	NIOSH September 2007
TERT-BUTYL ALCOHOL	75-65-0	TWA	100 ppm 300 mg/m ³	US (OSHA) June 23, 2006

Consult local authorities for acceptable exposure limits.

Exposure controls

Engineering measures General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Personal protective equipment

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Wear chemical resistant gloves such as: Glove material butyl rubber; material thickness .5mm; break through time \geq 480 min. Gloves must be replaced after 8 hours of wear.

Eye and face protection

Use splash goggles when eye contact due to splashing or spraying liquid is possible.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Wear chemical resistant gloves such as: Glove material butyl rubber; material thickness .5mm; break through time ≥ 480 min. Gloves must be replaced after 8 hours of wear.

Eye and face protection

Use splash goggles when eye contact due to splashing or spraying liquid is possible.

Skin and body protection

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn.

Hygiene measures

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.

Normal Use



Eye/Face Protection: None required for use of this product with normal use. Do not spray into eyes.



Skin and Body Protection: None required for use of this product with normal use. Prolonged use may cause dry skin.



Respiratory Protection: No special ventilation is required for this product with normal use. Avoid inhaling.



Hygienic Measures: See directions for product use. Handle in accordance with good hygiene.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>Physical and Chemical Properties</u>	<u>Values</u>
Physical State:	Liquid
Color:	Blue
Odor:	Aromatic
pH:	N/A
Melting/Freezing Point:	-173.4 °F (-114.1 °C)
Boiling Point:	173.3 °F (78.5 °C)
Flash Point:	55 - 61 °F (13 - 16 °C) Method: ASTM D 56
Lower Exposure Limit	3.3 vol%
Upper Exposure Limit	19 vol%

Autoignition temperature	685 °F (363 °C) at 1,013 hPa (760 mm Hg)
Flammability (solid/gas):	N/A
Vapor pressure	59.45 hPa (44.59 mm Hg) at 68 °F (20 °C)
Vapor density	1.6 (Air = 1.0)
Specific Gravity:	0.98 – 0.99 g/mol
Water Solubility:	Soluble
Solubility in other solvents:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	1.08 mm ² /s at 104 °F (40 °C)
Explosive Properties:	Not explosive
Oxidizing Properties:	The substance or mixture is not classified as oxidizing.

Other Information

No other information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions

Chemical Stability: Product is stable under normal, ambient conditions. Store in a cool, dry area.

Possibility of Hazardous Polymerization: None under normal conditions.

Hazardous Polymerization: Hazardous polymerization does not occur under normal conditions.

Conditions to avoid: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Hazardous Decomposition Products: Carbon monoxide is expected to be the primary hazardous combustion product.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Effects of Overexposure – Inhalation:

Based on acute toxicity values, not classified. Short term overexposure may cause irritation of eyes, nose and throat and central nervous system (CNS) effects such as headache, dizziness, drowsiness and an inability to concentrate.

Effects of Overexposure - Eye Contact: Flush with plenty of water, if symptoms persist consult a Physician. Classified Causes serious eye irritation.

Effects of Overexposure – Skin Contact: Do not use on broken or irritated skin. Based on acute toxicity values, not classified.

Effects of Overexposure – Ingestion: Do not induce vomiting if symptoms persist consult a physician. Based on acute toxicity values, not classified. Short term overexposure May cause drunkenness, depression of the central nervous system and death.

Effects of Overexposure – Chronic Hazards: Based on physico-chemical values or lack of human evidence, not classified.

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

Oral	LD50: 6,882 mg/kg Species: Rat Method: Acute toxicity estimate
Inhalation	LC50: 134.5 mg/l Species: Rat Method: Acute toxicity estimate
Dermal	LD50: 17,118 mg/kg Species: Rabbit Method: Acute toxicity estimate

Chronic toxicity

Component Name	NTP	IARC	OSHA
Ethyl alcohol		1	Present

Carcinogenicity

Not classified Ethanol possesses properties that indicate a carcinogenicity hazard for human health but these are manifest only at doses associated with consumption of alcoholic beverages. In the context of an industrial chemical, these hazards do not warrant concern as these are not likely to result from the manufacture and use of ethanol and ethanol containing products.

Contains: t-Butyl Alcohol Contains a substance that has a positive carcinogenicity study. The weight of evidence for the carcinogenicity of this substance does not meet the criteria for classification.

Germ cell mutagenicity

Not classified No adverse effect observed.

Reproductive toxicity

Effects on fertility /

Effects on or via lactation

Not classified Ethanol possesses properties that indicate a lactation hazard for human health but these are manifest only at doses associated with consumption of alcoholic beverages. In the context of an industrial chemical, these hazards do not warrant concern as these are not likely to result from the manufacture and use of ethanol and ethanol containing products.

Effects on Development

Not classified Ethanol possesses properties that indicate a developmental hazard for human health but these are manifest only at doses associated with consumption of alcoholic beverages. In the context of an industrial chemical, these hazards do not warrant concern as these are not likely to result from the manufacture and use of ethanol and ethanol containing products.

Contains: t-Butyl Alcohol

Embryo/fetal toxicity and/or developmental delay was observed in animals following repeated oral or inhalation exposures to high concentrations of t-Butyl Alcohol that produced slight maternal toxicity in the dams. No teratogenicity was observed in the embryos/fetuses as well.

Target Organ Systemic Toxicant - Single exposure

Target Organs: Respiratory system, Central nervous system Classified, May cause respiratory irritation., May cause drowsiness or dizziness.

Target Organ Systemic Toxicant - Repeated exposure

Based on repeated exposure toxicity values, not classified., Repeated exposure to high oral doses may damage the liver.

Aspiration hazard: Based on physico-chemical values or lack of human evidence, not classified.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicology Assessment

Acute aquatic toxicity: Based on acute aquatic toxicity values, not classified.

Chronic aquatic toxicity: Not classified, based on readily biodegradability and low acute toxicity.

Toxicity to fish: Test substance: Based on Ethanol Acute toxicity to fish is very low.

Toxicity to fish (Chronic toxicity): No Data Available.

SECTION 13: DISPOSAL CONSIDERATIONS



Always dispose of any waste in accordance with all local, state, and federal regulations.

WASTE DISPOSAL METHODS: Dispose of in accordance with local regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment. Absorb spill with inert material then place in a chemical waste container. Empty containers should be taken to an approved waste handling site for recycling or disposal. Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Proper Shipping Name: Ethanol Solutions

Packing Group: II

DOT Hazard Class: 3

DOT UN/NA Number: 1170

For further information see Title 49, Code of Federal Regulations, parts 172 and 173.

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations

All components of this product are listed or are exempt from listing on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304

This product contains no known chemicals regulated under SARA 302/304.

SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

Fire Hazard.

Immediate (Acute) Health Hazard.

Delayed (Chronic) Health Hazard.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

Component	Reporting Threshold
TERT-BUTYL ALCOHOL	1.0%

State Reporting

This material contains the following chemical substance at very low levels which is regulated under California Proposition 65. However, it is the responsibility of the California business owner to develop his or her own regulatory compliance plan. Contact Product Safety for further information at product.safety@lyb.com.

Substance	CASRN	Type of Toxicity								
			Carcinogen	Developmental	Repro-Male	Repro Fem.				
			X							

This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

- 64-17-5 Ethyl alcohol
- 75-65-0 TERT-BUTYL ALCOHOL

This product contains the following chemicals regulated by Massachusetts' Right to Know Law:

- 64-17-5 Ethyl alcohol
- 75-65-0 TERT-BUTYL ALCOHOL

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

- 64-17-5 Ethyl alcohol
- 75-65-0 TERT-BUTYL ALCOHOL

Other international regulations

Global Inventory Status The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region Description	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant

REACH status If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that all substances in this preparation have been pre-registered or, where required under REACH, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in REACH. (Regulation (EU) No. 1907/2006) Contact product.safety@lyb.com for additional global inventory information.

