

SAFETY DATA SHEET



Revision Date 02-Dec-2016
Version 2.04

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Hat Stiffener
Product code M30647

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use No information available
Restrictions on use No information available

1.3 Details of the supplier of the safety data sheet

Supplier Hats By Leko Company
3365 Odell Hwy.
Hood River, OR 97031

E-mail Address direct@hatsupply.com

1.4 Emergency telephone number

Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA
Chemtrec: 1-800-424-9300 USA

2. Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

Flammable liquids	Category 2
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2.2 Label elements

Signal Word
Danger

Hazard Statements

Highly flammable liquid and vapor

Certificate of Compliance

Issue Date: **June 1, 2015**

Valid for one year from issue date.

presented to

Hats By Leko

Contract Number: MIS0002640

- Hats By Leko provides its employees **24-hour access to toll free phone number for the provision of Safety Data Sheets** and for Emergency Response information regarding hazardous materials in the workplace in compliance with OSHA Right to Know regulations.
- All Hats By Leko employees have access to the **ChemTel Chemical Expert Assistance Hotline** by dialing **800-255-3924** or **+01-813-248-0585** for callers outside US territories and Canada.
- **ChemTel 365/24/7 Call Center provides compliance** with United States Department of Transportation (DOT), IATA and IMDG Hazardous Materials transportation regulations pertaining to a 24hr Emergency Response phone number.



Customized Compliance Solutions

**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Keep container tightly closed
 Ground/Bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting/equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Wear protective gloves/clothing and eye/face protection

Precautionary Statements - Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
 In case of fire: Use CO₂, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards Hazards not otherwise classified (HNOC)

Not Applicable

2.4 Other information

Not Applicable

Unknown Acute Toxicity 13.15% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Substance**Mixture**

Chemical Name	CAS No.	Weight-%
Ethanol	64-17-5	80 - 90
Ethyl Acetate	141-78-6	1 - 5

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first-aid measures

General advice Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact Remove contact lenses, if present. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

Skin contact Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. Call a physician if irritation develops or persists.

Inhalation	Move to fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Rinse mouth with water and afterwards drink plenty of water or milk. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the substance or mixture

Special Hazard

Hazardous decomposition products formed under fire conditions. Flash back possible over considerable distance.

Hazardous Combustion Products No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.3 Advice for firefighters

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

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Keep containers tightly closed in a dry, cool and well-ventilated place.

Hygiene measures When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions Keep locked up or in an area accessible only to qualified or authorized persons. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.

Materials to Avoid Strong oxidizing agents.

8. Exposure controls/personal protection

8.1 Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	British Columbia	Alberta	Quebec	Ontario TWAEV
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm TWA: 1880 mg/m ³	STEL: 1000 ppm
Ethyl Acetate 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ³	TWA: 150 ppm	TWA: 400 ppm TWA: 1440 mg/m ³	TWA: 400 ppm TWA: 1440 mg/m ³	TWA: 400 ppm

8.2 Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

8.3 Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Wear protective gloves/ protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures See section 7 for more information

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid	Color	Yellow to Tan/Brown
Appearance	Colored liquid	Odor Threshold	No information available
Odor	Pleasant		

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH		No information available
Melting/freezing point	-114 °C / -173 °F	
Boiling point/boiling range	78 °C / 172 °F	for Pure Ethyl Alcohol
Flash Point	11 °C / 52 °F	for Pure Ethyl Alcohol Tag closed cup
Evaporation rate	(Butyl Acetate=1): >1	
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Upper explosion limit	Not Applicable	
Lower explosion limit	Not Applicable	
Vapor pressure	44.6mm@ 68°F	
Vapor density	1.59	(Air = 1.0) for Pure Ethyl Alcohol
Specific Gravity	0.831 @ 60°F	
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

9.2 Other information

Volatile organic compounds (VOC) content Max Voc = 388-651 GPL

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Contact with Acetyl Chloride and a wide range of oxidizers.

10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

11.1 Acute toxicity

Numerical measures of toxicity: Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Unknown Acute Toxicity 13.15% of the mixture consists of ingredient(s) of unknown toxicity

LC50 (Vapor) 130.00 mg/l

Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol 64-17-5	-	-	= 124.7 mg/L (Rat) 4 h
Ethyl Acetate 141-78-6	5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit)	-

11.2 Information on toxicological effects

Skin corrosion/irritation

Product Information

- May cause irritation and defatting of skin on prolonged contact.

Component Information

- No information available

Serious eye damage/eye irritation

Product Information

- Liquid or vapor may cause irritation.

Component Information

- No information available

Respiratory or skin sensitization

Product Information

- Exposure to over 1000ppm may cause headache, drowsiness, and lassitude; loss of appetite, inability to concentrate and irritation to throat.

Component Information

- No information available

Germ cell mutagenicity

Product Information

- No information available

Component Information

- No information available

Carcinogenicity

Product Information

- The table below indicates whether each agency has listed any ingredient as a carcinogen

Component Information

- There are no known carcinogenic chemicals in this product

Reproductive toxicity

Product Information

- No information available

Component Information

- No information available

STOT - single exposure

No information available

STOT - repeated exposure

- May cause adverse liver effects
- Contains a known or suspected reproductive toxin

Other adverse effectsProduct Information

• **INGESTION:** Can cause depression of central nervous system, vomiting, nausea and diarrhea. Individual responses to methyl alcohol vary. Ingestion of less than 30ml (0.34 g/kg) has been fatal to humans. In general, a few ounces may cause blindness and death. As little as 4ml may be toxic if ingested.

Component Information

- No information available

Aspiration hazardProduct Information

- No information available

Component Information

- No information available

12. Ecological information

12.1 ToxicityEcotoxicity

No information available

13.15 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Ethanol 64-17-5	-	LC50: 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L static LC50: 96 h Pimephales promelas 100 mg/L static LC50: 96 h Pimephales promelas 13400 - 15100 mg/L flow-through	LC50: 48 h Daphnia magna 9268 - 14221 mg/L EC50: 48 h Daphnia magna 2 mg/L Static
Ethyl Acetate 141-78-6	-	LC50: 96 h Pimephales promelas 220 - 250 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 484 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 352 - 500 mg/L semi-static	EC50: 48 h Daphnia magna 560 mg/L Static

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Discharge into the environment must be avoided

Chemical Name	log Pow
Ethanol 64-17-5	-0.32
Ethyl Acetate 141-78-6	0.6

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

Discharge into the environment must be avoided

13. Disposal Considerations

13.1 Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport Information

DOT

UN/ID No	UN 1263
Proper shipping name	Paint
Hazard class	Class 3, Flammable liquid
Packing Group	III

MEX

Proper shipping name	Paint
Hazard class	Class 3, Flammable liquid
UN/ID No	UN 1263
Packing Group	II

IMDG

Proper shipping name	PAINT
Hazard class	Class 3, Flammable liquid
UN	UN 1263
Packing Group	II

IATA

UN	UN 1263
Proper shipping name	PAINT
Hazard class	Class 3, Flammable liquid
Packing Group	II

15. Regulatory information

15.1 International Inventories

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2 U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

15.3 Pesticide Information

Not applicable

15.4 U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

16. Other information

<u>NFPA</u>	Health Hazard 2	Flammability 4	Instability 0	Physical and chemical hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 4	Physical Hazard 0	Personal protection X

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

Ceiling (C)

DOT (Department of Transportation)

EPA (Environmental Protection Agency)

IARC (International Agency for Research on Cancer)

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

NIOSH (National Institute for Occupational Safety and Health)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL (Permissible Exposure Limit)

Reportable Quantity (RQ)

Skin designation (S)*

STEL (Short Term Exposure Limit)

TLV® (Threshold Limit Value)

TWA (time-weighted average)

Revision Date 02-Dec-2016

Revision Note

No information available

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet