

LINALOOL

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision Date: 8/13/2023 1. PRODUCT & COMPANY IDENTIFICATION Product Name: 1.1 K18® MOLECULAR REPAIR HAIR OIL Chemical Name 1.2 Alkane Mixture 1.3 Synonyms K18 Hair Oil 1.4 Product Uses & Restrictions: Leave-on Hair Conditioner 1.5 Distributor's Name: K18 Biomimetic Hairscience 1.6 Distributor's Address: 621 Sansome Street, San Francisco, CA 94111 USA 1.7 Emergency Phone: CHEMTREC: +1 (703) 527-3887 // +1 (800) 424-9300 +1 (844) 564-0382 // +1 (800) 466-7379 1.8 Business Phone / Fax: 2. HAZARDS IDENTIFICATION Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. 2.1 Hazard Identification: Canadian WHMIS and Australian Work Health and Safety standards. DANGER! MAY BE FATAL IF SWALLOWED AND ENTER AIRWAYS. CAUSES EYE IRRITATION. Classification: Asp. Tox. 1, Eye Irrit. 2A Label Elements 2.2 Hazard Statements (H): H304 - May be fatal if swallowed and enter airways. H320 - Causes eye irritation. Precautionary Statements (P): P102 - Keep away from children. P103 - Read label before use. P273 - Avoid release to the environment. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 - Do not induce vomiting. P337+P317 - If eye irritation persists: Get medical help. P332+P313 - If skin irritation occurs: Get medical advice or attention. P403+P235 - Store in a well-ventilated place. Keep cool. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage, and disposal firm KEEP OUT OF REACH OF CHILDREN. Additional Hazards: 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m3) **ACGIH** NOHSC **OSHA** ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. TLV STEL TWA STEL PEL STEL IDLH OTHER PEAK 622-542-2 NA 3891-98-3 NA NA NA NF NF NF NA NA NA C₁₃₋₁₅ ALKANE Asp. Tox. 1, Aq. Chronic 4; H304, H413 1120-21-4 NA 214-300-6 NA NA NA NF NA NA NA NF NF UNDECANE Asp. Tox. 1; H304 629-50-5 NA 211-093-4 NA NA NA NF NF NF NA NA NA TRIDECANE Asp. Tox. 1; H304 NA 122-40-7 NA 204-541-5 NA NA NF NF NF NA NA NA AMYL CINNAMAL Acute Tox. (oral) 5; Skin Sens. 1; Aq. Acute 2; Aq. Chronic 2; H303, H317, H411 204-402-9 NΑ NA NF NF NA NA NA 120-51-4 DG420000 NA NF BENZYL BENZOATE Acute Tox. (oral) 4; Acute Tox. (dermal) 5; Aq. Acute 2; Aq. Chronic 2; H302, H313, H411 NF 104-55-2 NA 203-213-9 NA NA NF NF NA NA NA ALLERGEN NA CINNAMAI Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; H312, H315, H317, H319 5392-40-5 NA 226-394-6 NA NA NA NF NF NF NA NA NA ALLERGEN CITRAL Skin Irrit. 2; Skin Sens. 1; H315, H317 RG5830000 203-377-1 NA 106-24-1 NA NA NF NF NF NA NA NA ALLERGEN GERANIOI Skin Irrit. 2; Skin Sens. 1; Eye Dam. 1; H315, H317, H318 101-86-0 GD6560000 202-983-3 NA NA NA NF NF NF NA NA ALLERGEN NA HEXYL CINNAMAL Skin Sens. 1B; Aq. Chronic 2; H317, H411 5989-27-5 227-813-5 NA NA ALLERGEN GW6360000 NA NF NF NA NA NA LIMONENE Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Aq. Acute 1; Aq. Chronic 1; H226, H315, H317, H400, H410 201-134-4 78-70-6 RG5775000 NA NA NA NF NF NA NA ALLERGEN

Flam. Liq. 4; Acute Tox. (oral) 5; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H227, H303, H315, H319, H335



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Re vision Date: 8/13/2023 4. FIRST AID MEASURES 4.1 First Aid: If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number. Ingestion: Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water Eyes: for at least 15 minutes. If irritation occurs, contact a physician. If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough Skin: washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. Remove victim to fresh air at once. Inhalation: 4.2 Effects of Exposure: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Ingestion: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and Eyes: None expected. In some sensitive individuals, the product can cause allergic skin reactions (e.g., rashes, Skin: welts, dermatitis) in rare instances. Inhalation: None expected. Overexposure in the eyes may cause redness, itching and watering. In some sensitive individuals, symptoms of skin 4.3 Symptoms of Overexposure overexposure may include redness, itching, and irritation of affected areas. Moderate irritation to eyes. In some sensitive individuals, moderate irritation to skin near affected areas. 4.4 Acute Health Effects: Chronic Health Effects: No harmful or chronic health effects are expected to occur from a single accidental ingestion. 4.5 Target Organs: Eyes, Skin 4.6 4.7 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH Aggravated by Exposure: target organs (eyes, skin). 0 **FLAMMABILITY** 0 **PHYSICAL HAZARDS** PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This product is non-flammable. When exposed to high temperatures, may produce hazardous 5.1 decomposition products such as oxides of carbon (e.g., CO, CO₂), sulfur (e.g., SO₂) and nitrogen (e.g., NO_x) and smoke. 5.2 Extinguishing Methods: Water, Foam, CO2, Dry Chemical 5.3 Firefighting Procedures: As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personnel. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). For small spills (e.g., < 1 gallon (3.8 L)) or large spills (e.g., ≥ 1 gallon (3.8 L)), wear appropriate personal protective equipment (e.g., goggles, gloves). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash 7. HANDLING & STORAGE INFORMATION Do not eat, drink, or smoke while handling this product. Work & Hygiene Practices: 7.1 Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive 72 Storage & Handling: heat and open flames. Spilled material may present a slipping hazard if left unattended. Clean all spills promptly. 7.3 Special Precautions:



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision Date: 8/13/2023 8. EXPOSURE CONTROLS & PERSONAL PROTECTION NOHSO OSHA OTHER 8.1 Exposure Limits: ppm (mg/m³) TLV STEL ES-TWA ES-STEL **ES-PEAK** PEL STEL IDLH CHEMICAL NAME(S) HEXYL CINNAMAL ALLERGEN NA NA NF NF NF NA NA NA GERANIOI NΙΔ NA NIF NF NIF NA NA NΙΔ ALLERGEN CINNAMAL NΑ NΑ NF NF NF NΑ NΑ NΑ ALLERGEN CITRAL NA NA NF NF NF NA NA ALLERGEN NA LIMONENE NA NA N NF N NΑ NA NA ALLERGEN NA NF LINALOOL NA NF NF NΑ NA NA ALLERGEN 8.2 Ventilation & Engineering When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink, or washbasin is available in case of exposure to eyes. 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, EU member states, or Australia. 8.4 Eye Protection: AVOID EYE CONTACT DUE TO IRRITATION POTENTIAL. Wear protective eyewear (e.g., safety glasses with side-shield) always when handling large quantities (e.g., ≥ 1 gallon (3.8 L)) of this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex 8.5 Hand Protection: or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the EU member states. 8.6 Body Protection: However, no special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Clear, yellow liquid 9.2 Odor: NA 9.3 Odor Threshold: NA 9.4 pH: NA 9.5 Melting Point/Freezing Point: NA Initial Boiling Point/Boiling 9.6 NΑ Range: 9.7 NA Flashpoint: Upper/Lower Flammability 9.8 NA NA 99 Vapor Pressure: 9 10 Vapor Density: NA Specific Gravity 911 0.83-0.89 9.12 Insoluble Solubility: Partition Coefficient (log Pow): NA 9.13 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature NA 9 16 Viscosity: Non-viscous 9.17 Other Information: NΑ 10. STABILITY & REACTIVITY 10.1 Stability: This product is stable. Hazardous Decomposition 10.2 Oxides of carbon (CO, CO₂) and sulfur (SO₂). Products: Will not occur. 10.3 Hazardous Polymerization: 10.4 Conditions to Avoid: Extreme temperatures. 10.5 Incompatible Substances: None known. 11. TOXICOLOGICAL INFORMATION Inhalation: NO Absorption: YES 11.1 Routes of Entry: Ingestion: YES Toxicity Data: 11.2 This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, but is not presented in this document. See Section 4.4 11.3 Acute Toxicity See Section 4.5 11.4 Chronic Toxicity



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision Date: 8/13/2023 11. TOXICOLOGICAL INFORMATION – cont'd Suspected Carcinogen: No 11.5 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. Mutagenicity Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 11.7 Irritancy of Product: See Section 4.3 11.8 Biological Exposure Indices: NF Treat symptomatically 11.9 Physician Recommendations 12. ECOLOGICAL INFORMATION There are no specific data available for this product. Environmental Stability: 12.1 12.2 Effects on Plants & Animals: There are no specific data available for this product. There are no specific data available for this product. WGK: 2 (hazard to waters) 12.3 Effects on Aquatic Life: 13. DISPOSAL CONSIDERATIONS Waste Disposal: Dispose of in accordance with federal, state and local regulations. 13.2 Special Considerations: 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 14.1 49 CFR (GND): **NOT REGULATED** IATA (AIR): NOT REGULATED 14.2 IMDG (OCN): **NOT REGULATED** 14.3 NOT REGULATED TDGR (Canadian GND): 14.4 NOT REGULATED ADR/RID (EU): 14.5 SCT (MEXICO): NOT REGULATED 146 NOT REGULATED 14.7 ADGR (AUS): 15. REGULATORY INFORMATION SARA Reporting This product contains Isopropanol, a substance subject to SARA Title III, Section 313 reporting requirements. 15.1 Requirements SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. 15.2 The components of this product are listed on the TSCA Inventory. 15.3 TSCA Inventory Status: CERCLA Reportable Quantity 15.4 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics). This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under Other Canadian Regulations: This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects) State Regulatory Information: Benzyl Benzoate is found on the following state criteria lists: NJ, and PA. Hexyl Cinnamal is found on the following state criteria lists: MA, and PA. Geraniol is found on the following state criteria lists: NJ, and PA Limonene is found on the following state criteria lists: PA No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov Other Requirements: This product is found on the following inventory lists: Australia - AICS, China - IECSC, Europe - ELINCS/EINEC, Japan - ENCS; Korea - KECI; New Zealand - NZIoC; Philippines - PICCS; USA - TSCA.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision Date: 8/13/2023 16. OTHER INFORMATION Other Information: DANGER! MAY BE FATAL IF SWALLOWED AND ENTER AIRWAYS. CAUSES EYE IRRITATION. For external use only. Use only as directed. Keep away from children. Read label before use. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not induce vomiting. If eye irritation persists: Get medical help. If skin irritation occurs: Get medical advice or attention. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to a licensed treatment, storage, and disposal firm. KEEP OUT OF REACH OF CHILDREN. Terms & Definitions: See last page of this Safety Data Sheet. This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other 16.3 Disclaimer: government regulations must be reviewed for applicability to this product. To the best of ShipMate's & K18 Biomimetic Hair Science's, knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest Prepared for: K18 Biomimetic Hair Science 621 Sansome Street San Francisco, CA 94111 USA Tel: +1 (844) 564-0382 Tel: +1 (800) 466-7379 https://www.k18hair.com/ Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com



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REACTIVITY

PRECAUTIONS

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards

SDS Revision: 1.0

SDS Revision Date: 8/13/2023

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard				
1	1 Slight Hazard				
2	Moderate Hazard				
3	Severe Hazard				
4	Extreme Hazard				



PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D			
Е			
F		, and	





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition			
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	FLAMMADILITI
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ ~~~~
W	Use No Water	HEALTH
OX	Oxidizer	
TREFOIL	Radioactive	

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or TC, TC _o , LC _{Io} , & LC _o	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

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GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment