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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier Trade name :	Ceraphyl™ 41 emollient ™ Trademark, Ashland or its subsidiaries, registered in various countries
Substance name	Propanoic acid, 2-hydroxy-, C12-15-alkyl esters
Substance No. EC-No.	300-338-1
CAS-No.	93925-36-1

Relevant identified uses of the substance or mixture and uses advised against Recommended use : Personal care

Cosmetics	
Details of the supplier of the safety data sheet Ashland P.O. Box 2219 Columbus, OH 43216 United States of America (USA) +1-614-790-3333	Emergency telephone number 1-800-ASHLAND (1-800-274-5263) Regulatory Information Number 1-800-325-3751 Product Information +1-614-790-3333
EHSProductSafety@ashland.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Eye irritation	: Category 2B
GHS label elements Signal Word	: Warning
Hazard Statements	: Causes eye irritation.

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Precautionary Statements

: Prevention:

Wash skin thoroughly after handling. **Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Hazardous components

nazaruous components			
Chemical name	CAS-No.	Classification	Concentration (%)
Propanoic acid, 2-hydroxy-, C12- 15-alkyl esters	93925-36-1	Eye Irrit. 2B; H320	100.00
Alcohols, C12-15	63393-82-8	Skin Irrit. 2; H315	5.00
		Eye Irrit. 2A; H319	

SECTION 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 breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	 Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses.

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FIULEUL UNITAILIEU EYE.	Protect	unharmed	eve.
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If swallowed	 Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or Section 11. Causes eye irritation.
Notes to physician	: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet
Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide
Specific extinguishing methods	:
	Product is compatible with standard fire-fighting agents.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Use personal protective equipment.
protective equipment and		Persons not wearing protective equipment should be excluded
emergency procedures		from area of spill until clean-up has been completed.

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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	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Other information	:	Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
Propanoic acid, 2-hydroxy-,	93925-36-1
C12-15-alkyl esters	
Alcohols, C12-15	63393-82-8

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or

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	apparent adverse effects.	
Personal protective equipment Respiratory protection :	In the case of vapour formation use a respirator with an approved filter within the capabilities of the respirator/filter combination. Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.	
	butyl-rubber 480 min > 0.5 mm	
Remarks :	The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The suitability for a specific workplace should be discussed with the producers of the protective gloves.	
Eye protection :	Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.	
Skin and body protection :	Wear as appropriate: Impervious clothing Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier).	
Hygiene measures :	Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	white, yellow
Odour	:	characteristic

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Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: 9.0 - 21 °F / -12.86 °C
Boiling point/boiling range	: No data available
Flash point	: 176.7 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.90 - 0.92 g/cm3 (25 °C)
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization.
Hazardous decomposition products	Carbon monoxide Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
-		Eye Contact
		Ingestion

Acute toxicity

Not classified based on available information.				
Propanoic acid, 2-hydroxy-, C12	-15-alkyl esters:			
Acute oral toxicity : LD50 (Rat): 20,000 mg/kg Remarks: Information given is based on data obtaine similar substances.				
Acute dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: Not classified as acutely toxic by dermal absorption under GHS. Remarks: Information given is based on data obtained from similar substances. 			

Skin corrosion/irritation

Not classified based on available information. Product: Remarks: May cause skin irritation in susceptible persons.

<u>Components:</u> Propanoic acid, 2-hydroxy-, C12-15-alkyl esters: Species: Rabbit Method: Draize Test Result: Slight, transient irritation

Alcohols, C12-15:

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Result: Irritating to skin.

Serious eye damage/eye irritation

Causes eye irritation. <u>Product:</u> Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Species: Rabbit Result: Mild eye irritation Method: OECD Test Guideline 405

Components:

Propanoic acid, 2-hydroxy-, C12-15-alkyl esters: Species: Rabbit Result: Mild eye irritation

Alcohols, C12-15: Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. **Components:** Propanoic acid, 2-hydroxy-, C12-15-alkyl esters: Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity Not classified based on available information. <u>Components:</u>

Propanoic acid, 2-hydroxy-, C12-15-alkyl esters: Genotoxicity in vitro : Test Type: Arr

: Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

: Test Type: Chromosome aberration test in vitro Test species: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative

Carcinogenicity

Not classified based on available information.

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Reproductive toxicity

Not classified based on available information. <u>Components:</u> Propanoic acid, 2-hydroxy-, C12-15-alkyl esters: Effects on fertility : Species: Rat

Species: Rat Application Route: Oral Fertility: No observed adverse effect level: 200 mg/kg bw/day Remarks: Information given is based on data obtained from similar substances.

STOT - single exposure

Not classified based on available information. **STOT - repeated exposure** Not classified based on available information. **Repeated dose toxicity** <u>Components:</u> Propanoic acid, 2-hydroxy-, C12-15-alkyl esters: Species: Rabbit NOAEL: 500 mg/kg Application Route: Dermal Exposure time: 30 d Remarks: Systemic effects Information given is based on data obtained from similar substances.

Species: Rabbit NOAEL: 0.6 mg/l Application Route: Inhalation Exposure time: 30 d Remarks: Systemic effects Information given is based on data obtained from similar substances.

Species: Rabbit NOAEL: 0.075 mg/l Application Route: Inhalation Exposure time: 30 d Remarks: Local effects Information given is based on data obtained from similar substances.

Aspiration toxicity

Not classified based on available information. <u>Product:</u> No aspiration toxicity classification

Further information Product:

Remarks: No data available

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Carcinogenicity: IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity <u>Product:</u> Ecotoxicology Assessment Short-term (acute) aquatic hazard	: Acute aquatic toxicity Category 1; Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.
<u>Components:</u> Propanoic acid, 2-hydroxy-, C1 Toxicity to fish	 2-15-alkyl esters: LC50 (Fish): ca. 0.28 mg/l Exposure time: 96 h Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.064 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Aquatic plants): 0.025 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
M-Factor (Short-term (acute) aquatic hazard)	: 10
Toxicity to daphnia and other aquatic invertebrates	: NOEC (Daphnia (water flea)): 0.023 mg/l Exposure time: 21 d

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(Chronic toxicity)	Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
M-Factor (Long-term (chronic) aquatic hazard)	: 1
Alcohols, C12-15: Toxicity to fish	: Remarks: Very toxic to fish.
Toxicity to daphnia and other aquatic invertebrates	: (Aquatic invertebrates): < 1 mg/l
Toxicity to algae	: Remarks: Very toxic to algae.
Ecotoxicology Assessment Short-term (acute) aquatic hazard	: Acute aquatic toxicity Category 1
Persistence and degradability <u>Components:</u> Propanoic acid, 2-hydroxy-, C12 Biodegradability	
Alcohols, C12-15: Biodegradability	: Result: Readily biodegradable.
No data available Bioaccumulative potential <u>Components:</u> No data available Mobility in soil <u>Components:</u> No data available Other adverse effects <u>Product:</u> Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life.,
<u>Components:</u> Propanoic acid, 2-hydroxy-, C12 Results of PBT and vPvB	Toxic to aquatic life with long lasting effects. -15-alkyl esters: : This substance is not considered to be persistent,

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assessment

bioaccumulating and toxic (PBT).

: This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	Empty remaining contents. 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.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

Γ	ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
			CLASS	HAZARDS	GROUP	POLLUTANT /
						LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

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TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

	-		-		
UN	3082	ENVIRONMENTALLY	9		MARINE
		HAZARDOUS SUBSTANCE,			POLLUTANT:(
		LIQUID, N.O.S. (Propanoic			Propanoic
		acid, 2-hydroxy-, C12-15-alkyl			acid, 2-
		esters)			hydroxy-, C12-
					15-alkyl esters,
					Alcohols, C12-
					15)
					,

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (Propanoic acid, 2-hydroxy-,	9	III
		C12-15-alkyl esters)		

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

082 Environment substance, lie	ally hazardous	9	111	
substance. lie	nuid nos			
	Julu, 11.0.3.			
(Propanoic a	cid 2-bydroxy-			
· ·				
C12-15-alkyl	esters)			
	· ·	(Propanoic acid, 2-hydroxy-, C12-15-alkyl esters)		

MX_DG

UN	3082	ENVIRONMENTALLY	9	
		HAZARDOUS SUBSTANCE,		
		LIQUID, N.O.S. (Propanoic		
		acid, 2-hydroxy-, C12-15-alkyl		
		esters)		

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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Marine pollutant	yes

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 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 :	Serious eye damage or eye	irritation	
SARA 302	:	This material does not conta 302 EHS TPQ.	ain any components with a section	
SARA 313 Pennsylvania	Right To Know Propanoic acid, esters Alcohols, C12-1	known CAS numbers that e reporting levels established 2-hydroxy-, C12-15-alkyl	ain any chemical components with xceed the threshold (De Minimis) by SARA Title III, Section 313. 93925-36-1 63393-82-8	
New Jersey Ri	-	2-hydroxy-, C12-15-alkyl 5	93925-36-1 63393-82-8	

California Prop. 65				
This product does not contain any chemicals known to State of California to cause cancer, birt defects, or any other reproductive harm. The components of this product are reported in the following inventories:				
TSCA	: This product is regulated under the United States Food and Drug Act (FDA).			
DSL	: All components of this product are on the Canadian DSL			

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AICS	: On the inventory, or in compliance with the inventory
ENCS	: Personal care
KECI	: Personal care
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory

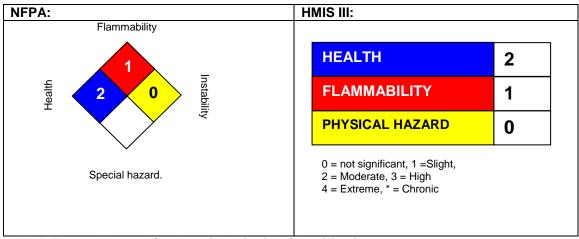
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

Full text of H-Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

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H320

Causes eye irritation.

Sources of key data used to compile the Safety Data Sheet Ashland internal data including own and sponsored test reports The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration,

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Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative