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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

 Vincience / Cotton bloom[™] 5S biofunctional
 [™] Trademark, Ashland or its subsidiaries, registered in various countries

Recommended use of the chemical and restrictions on use

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS Label element

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

: Mixture

Substance / Mixture

Hazardous components

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Chemical Name	CAS-No.	Classification	Concentration (%)
ALCOHOL		Not a hazardous substance or mixture.	>= 20.00 - < 30.00
The identity of one or more component(s) is being withheld under business confidentiality.			
SUCROSE		Not a hazardous substance or mixture.	1.69

SECTION 4. FIR	ST AID MEASURES	

General advice	: No hazards which require special first aid measures.
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	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
In case of eye contact	: Remove contact lenses. Protect unharmed eye.
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	: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways)
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
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	circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical	
Specific hazards during firefighting	If product is heated above its flash point it will produce vapor sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Do not allow run-off from fire fighting to enter drains or water courses.	r t e
Hazardous combustion products	Aldehydes carbon dioxide and carbon monoxide nitrogen oxides (NOx) Hydrocarbons	
Specific extinguishing methods		
	Product is compatible with standard fire-fighting agents.	
Further information	Standard procedure for chemical fires.	
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so.
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.

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Advice on safe handling	 Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.
Conditions for safe storage	: Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALCOHOL	254504001- 5838	PEL	15 mg/m3 Total dust.	OSHA_TRA NS
		PEL	5 mg/m3 Respirable fraction.	OSHA_TRA NS
SUCROSE	57-50-1	TWA	10 mg/m3	ACGIH
		REL	5 mg/m3 Respirable.	NIOSH/GUID E
		REL	10 mg/m3 Total	NIOSH/GUID E
		PEL	5 mg/m3 Respirable fraction.	OSHA_TRA NS
		PEL	15 mg/m3 Total dust.	OSHA_TRA NS

Components with workplace control parameters

Engineering measures

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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 apparent adverse effects.

Personal protective equipment

Respiratory protection

: No personal respiratory protective equipment normally required.

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Eye protection	: Not required under normal conditions of use. Wear splash- proof safety goggles if material could be misted or splashed into eyes.
Skin and body protection	 Wear as appropriate: Safety shoes Wear resistant gloves (consult your safety equipment supplier).
Hygiene measures	: General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Colour	: light yellow
Odour	: slight, characteristic
Odour Threshold	: No data available
рН	: 4.0 - 5.0
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 390 °F / 199 °C Value for Component
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	: 1.09 - 1.11 g/cm3

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Solubility(ies) Water solubility	: No data available
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
Oxidizing properties	: No data available

SECTION 10. STABILITY AND REACTIVITY

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.
Incompatible materials	: Oxidizing agents Strong bases strong mineral acids
Hazardous decomposition products	acrolein Aldehydes carbon dioxide and carbon monoxide Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

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

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Acute toxicity Not classified based on available information. Components: ALCOHOL: : LD 50 (Rat): 12,600 mg/kg Acute oral toxicity Method: OECD Test Guideline 401 : LC 50 (Rat): > 570 mg/m3 Acute inhalation toxicity Exposure time: 1 h Assessment: Not classified as acutely toxic by inhalation under GHS. : LD 50 (Rabbit): > 10 g/kg Acute dermal toxicity Components: SUCROSE: Acute oral toxicity : LD 50 (Rat): 29,700 mg/kg Skin corrosion/irritation Not classified based on available information. Components: ALCOHOL: Result: Not irritating to skin Components:

SUCROSE: Result: Possibly irritating to skin

Serious eye damage/eye irritation

Not classified based on available information. <u>Product:</u> Remarks: Unlikely to cause eye irritation or injury.

Components:

ALCOHOL: Result: Mildly irritating to eyes

Components:

SUCROSE: Result: Possibly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. **Product:** Species: Mouse

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Assessment: Did not cause sensitisation on laboratory animals. Method: Local lymph node assay Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity Not classified based on available information. Carcinogenicity Not classified based on available information. **Reproductive toxicity** Not classified based on available information. STOT - single exposure Not classified based on available information. STOT - repeated exposure Not classified based on available information. Aspiration toxicity Not classified based on available information. Further information Product: Remarks: No data available Components:

SUCROSE: Remarks: Lung

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 identified as a carcinogen or potential carcinogen by OSHA.
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

Components:

ALCOHOL:

Toxicity to fish

: LC 50 (Goldfish (Carassius auratus)): > 5,000 mg/l

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	Exposure time: 24 h Method: Static Remarks: Mortality
Toxicity to daphnia and other : aquatic invertebrates	LC 50 (Water flea (Daphnia magna)): > 10,000 mg/l Exposure time: 24 h Method: Static Remarks: Mortality
Persistence and degradability	
Components:	
No data available	
Bioaccumulative potential	
Components: ALCOHOL: Partition coefficient: n- : octanol/water	log Pow: -1.76
SUCROSE: Partition coefficient: n- : octanol/water	log Pow: -3.70
Mobility in soil	
<u>Components:</u> No data available	
Other adverse effects No data available	
Product:	
Additional ecological : information	No data available
Components:	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	: Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	: Empty remaining contents.

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SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER PROPER	SHIPPING NAME *HAZARI CLASS	D SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

Not dangerous goods	

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

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Not dangerous goods	

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant		no
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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

SARA 311/312 Hazards	: No SARA Hazards		
US State Regulations Pennsylvania Right To Know ALCOHOL	The identity of one or more under business confidentia		20.00 - 30.00 being withheld
WATER		7732-18-5	50.00 - 70.00 %
SUCROSE		57-50-1	1.00 - 5.00 %
New Jersey Right To Know ALCOHOL	The identity of one or more under business confidentia		20.00 - 30.00 being withheld
WATER		7732-18-5	50.00 - 70.00 %
Hydrolyzed Co	ottonseed extract	223749-08-4	1.00 - 5.00 %
SUCROSE		57-50-1	1.00 - 5.00 %
Trehalose		99-20-7	1.00 - 5.00 %

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California Prop 65	This product does not contain any chemica of California to cause cancer, birth defects, reproductive harm.	
The components of this prod TSCA	are reported in the following inventories This product is regulated under the United S Drug Act (FDA).	
DSL	This product contains the following compon on the Canadian DSL nor NDSL.	ents that are not
AUSTR	Not in compliance with the inventory	
ENCS	Not in compliance with the inventory	
KECL	Not in compliance with the inventory	
PICCS	Not in compliance with the inventory	
IECSC	Not in compliance with the inventory	

Inventories

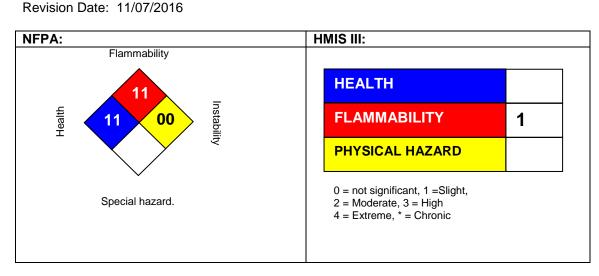
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Registration: Trade Secret		
	Chemical Name	Identification number
	ALCOHOL	254504001-5838

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SECTION 16. OTHER INFORMATION

Further information



NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

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.

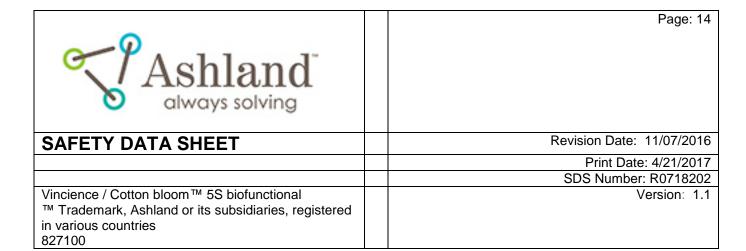
The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's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

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).



CMR : Carcinogenic, Mutagenic or Toxic for Reproduction FG : Food grade GHS : Globally Harmonized System of Classification and Labeling of Chemicals. H-statement : Hazard Statement IATA : International Air Transport Association. IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA). ICAO : International Civil Aviation Organization ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization" IMDG : International Maritime Code for Dangerous Goods ISO : International Organization for Standardization logPow : octanol-water partition coefficient LCxx : Lethal Concentration, for xx percent of test population LDxx : Lethal Dose, for xx percent of test population. ICxx : Inhibitory Concentration for xx of a substance Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified OECD : Organization for Economic Co-operation and Development **OEL** : Occupational Exposure Limit P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System