

**SAFETY DATA SHEET**

Revision Date: 08/07/2018

Print Date: 9/12/2018

SDS Number: R0718169

Version: 1.5

Vincience / Orsirtine™ ISR biofunctional  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
830450

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****Product identifier**

Trade name : Vincience / Orsirtine™ ISR  
biofunctional  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

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

Recommended use : Personal care

**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

EHSProductSafety@ashland.com

**Emergency telephone number**

1-800-ASHLAND (1-800-274-5263)

**Regulatory Information Number**

1-800-325-3751

**Product Information**

+1-614-790-3333

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

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

**GHS label elements**

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

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

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Chemical name	CAS-No.	Classification	Concentration (%)
ALCOHOL	254504001-5838	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 20.00 - < 30.00

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

**SECTION 4. FIRST 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 circumstances and the surrounding environment.



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Water spray  
 Foam  
 Carbon dioxide (CO2)  
 Dry chemical

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors 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.

Hazardous combustion products : Aldehydes  
 carbon dioxide and carbon monoxide  
 nitrogen oxides (NOx)

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.

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

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application area.

For personal protection see section 8.

Materials to avoid : No materials to be especially mentioned.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

ALCOHOL	254504001-5838	TWA	5 mg/m3 mist, respirable fraction	OSHA Z-1
		TWA	15 mg/m3 mist, total dust	OSHA Z-1
		PEL	10 mg/m3 Mist - total fraction	CAL PEL
		PEL	5 mg/m3 Mist - respirable fraction	CAL PEL
		TWA	10 mg/m3 Mist - total dust	OSHA P0
		TWA	5 mg/m3 Mist - respirable fraction	OSHA P0

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**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** : 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.

### Hand protection

**Material** : butyl-rubber  
**Break through time** : 480 min

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Glove thickness	: > 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.
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	: yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: 4.0 - 5.0
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 199 °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



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Relative vapour density : No data available

Relative density : No data available

Density : 1.06 - 1.09 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : soluble

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.

Conditions to avoid : excessive heat

Incompatible materials : Strong bases  
 Strong oxidizing agents

Hazardous decomposition products

acrolein  
 Aldehydes  
 carbon dioxide and carbon monoxide

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity**

Not classified based on available information.

**Components:****ALCOHOL:**

Acute oral toxicity : LD50 (Rat): 12,600 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 570 mg/m3  
Exposure time: 1 h  
Test atmosphere: vapour  
Assessment: Not classified as acutely toxic by inhalation  
under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 10 g/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****ALCOHOL:**

Result: No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:****ALCOHOL:**

Result: Slight, transient irritation

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.



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### 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

### 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

#### Product:

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Not classified based on available information.

Long-term (chronic) aquatic hazard : Not classified based on available information.

#### Components:

##### ALCOHOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,995 mg/l  
 Exposure time: 48 h

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Readily biodegradable



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**Components:****ALCOHOL:**

Biodegradability : Result: Readily biodegradable.

No data available

**Bioaccumulative potential****Components:****ALCOHOL:**Partition coefficient: n- : log Pow: -1.76  
octanol/water

No data available

**Mobility in soil****Components:**

No data available

**Other adverse effects**

No data available

**Product:**Additional ecological : No data available  
information**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.

**SECTION 14. TRANSPORT INFORMATION****International transport regulations****REGULATION**

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

**MX\_DG**

Not dangerous goods

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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**TDG\_INWT\_C**

Not dangerous goods

**TDG\_RAIL\_C**

Not dangerous goods

**TDG\_ROAD\_C**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**CFR\_RAIL\_C**

Not dangerous goods

**U.S. DOT - ROAD**

Not dangerous goods

**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant

no

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.



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### 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** : No SARA Hazards

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Pennsylvania Right To Know

ALCOHOL

254504001-  
5838

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

WATER

7732-18-5

#### New Jersey Right To Know

ALCOHOL

254504001-  
5838

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

WATER

7732-18-5

Hydrolyzed vegetable protein

100209-45-8

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth 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** : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.



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AICS	: Not in compliance with the inventory
ENCS	: Personal care
KECI	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
PICCS	: 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:	HMIS III:						
<p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p>	<table border="1"> <tr> <td><b>HEALTH</b></td><td><b>0/</b></td></tr> <tr> <td><b>FLAMMABILITY</b></td><td><b>1</b></td></tr> <tr> <td><b>PHYSICAL HAZARD</b></td><td><b>0</b></td></tr> </table> <p>0 = not significant, 1 =Slight,            2 = Moderate, 3 = High            4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>0/</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>0/</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements


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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,  
 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

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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative