

**SAFETY DATA SHEET**

Revision Date: 10/21/2022

Print Date: 1/9/2023

SDS Number: 000000307059

Version: 1.5

sensiva™ sc 50 multifunctional  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
967410

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifier**

Trade name : sensiva™ sc 50 multifunctional  
Description : N2022  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

Substance name 3-(2-Ethylhexyloxy)propan-1,2-diol

Substance No.  
EC-No. 408-080-2

CAS-No. 70445-33-9

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

Recommended use : Cosmetic additive

**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 (USA)

EHSPProductSafety@ashland.com

**Emergency telephone**

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

**Regulatory information**

1-614-790-3333 (customer service)

**Product Information**

1-614-790-3333 (USA)

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

Acute toxicity (Inhalation) : Category 4

Serious eye damage : Category 1

**GHS label elements**

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Hazard pictograms



Signal Word

: Danger

Hazard Statements

 : Causes serious eye damage.  
 Harmful if inhaled.

Precautionary Statements

 : If medical advice is needed, have product container or label at hand.  
 Keep out of reach of children.  
 Read label before use.

**Prevention:**

 Avoid breathing mist or vapors.  
 Use only outdoors or in a well-ventilated area.  
 Wear eye protection/ face protection.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**Other hazards**

None known.

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

Substance / Mixture

: Substance

**Hazardous ingredients**

Chemical name	CAS-No.	Classification	Concentration (%)
1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY)	70445-33-9	Acute Tox. 4; H332  Eye Dam. 1; H318	>=90.00 - <=100.00

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice

 : Move out of dangerous area.  
 Consult a physician.



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Show this material safety data sheet to the doctor in  
 attendance.

Do not leave the victim unattended.

- |   |   |
|---|---|
| If inhaled  | : Consult a physician after significant exposure.<br>If unconscious, place in recovery position and seek medical advice.  |
| In case of skin contact                                     | : Wash off with soap and plenty of water.   |
| In case of eye contact                                      | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed  | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.  |
| Most important symptoms and effects, both acute and delayed | : Causes serious eye damage.<br>Harmful if inhaled.<br>Gastrointestinal discomfort<br>Extremely corrosive and destructive to tissue.<br>tearing<br>Nasal irritation<br>Blurred vision<br>Nausea   |
| Notes to physician  | : Treat symptomatically.  |

## SECTION 5. FIRE-FIGHTING MEASURES

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : High volume water jet   |
| Specific hazards during fire   | : Do not allow run-off from fire fighting to enter drains or water  |



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fighting

courses.

Hazardous combustion  
products

: Carbon dioxide (CO2)  
Carbon monoxide

Specific extinguishing  
methods

:

Standard procedure for chemical fires.

Further information

: Collect contaminated fire extinguishing water separately. This  
must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must  
be disposed of in accordance with local regulations.

Special protective equipment  
for fire-fighters

: Wear self-contained breathing apparatus for firefighting if  
necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,  
protective equipment and  
emergency procedures

: Use personal protective equipment.  
Ensure adequate ventilation.

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.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against  
fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling

: Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the  
application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.



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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.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**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 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  
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 : Tightly fitting safety goggles  
Eye wash bottle with pure water

Skin and body protection : Work uniform or laboratory coat.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.



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Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: colorless
Odor	: odorless
Odor Threshold	: Not applicable
pH	: 6 - 8 (20 °C) Concentration: 1 g/l
Melting point/range	: -105 °F / -76 °C
Initial boiling point and boiling range	: 293 °F / 145 °C (9 hPa)
Flash point	: 152 °C Method: ASTM D 93
Evaporation rate	: not determined
Flammability (solid, gas)	:  not determined
Flammability (liquids)	: not determined
Flammability (liquids) Upper explosion limit	: not determined
Lower explosion limit	: not determined
Vapor pressure	: 0.003 hPa (20 °C)
Relative vapor density	: not determined
Relative density	: 0.950 - 0.960 (20 °C)
Density	: not determined
Solubility(ies)	

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Water solubility : 1 g/l (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : Pow: 2.53 (20 °C) Method: OECD Test Guideline 107

Thermal decomposition : No data available

Viscosity  
Viscosity, dynamic : 144 mPa.s (20 °C)  
Method: Brookfield

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

Molecular weight : No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Vapors may form explosive mixture with air.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Oxidizing agents

Hazardous decomposition products  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**SECTION 11. TOXICOLOGICAL INFORMATION**

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



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### Acute toxicity

Harmful if inhaled.

#### Components:

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
 Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): 3.07 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks: Extremely corrosive and destructive to tissue.

#### Components:

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Species: Rabbit

Result: Slight, transient irritation

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Remarks: May cause irreversible eye damage.

#### Components:

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Species: Rabbit

Result: Corrosive

Method: OECD Test Guideline 405

### Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

#### Components:

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Species: Guinea pig

Assessment: Does not cause skin sensitization.

Method: OECD Test Guideline 406

### Germ cell mutagenicity

Not classified based on available information.



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**Components:**

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Test species: Mouse (male and female)  
Method: OECD Test Guideline 474  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**Components:**

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Effects on fetal development : Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse  
effect level): 800 mg/kg bw/day  
Method: OECD Test Guideline 414

Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse  
effect level): 50 mg/kg bw/day  
Method: OECD Test Guideline 414

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Repeated dose toxicity****Components:**

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Species: Rat, male and female  
No-observed-effect level: 100 mg/kg  
Application Route: Oral  
Exposure time: 28 d  
Method: OECD Test Guideline 407

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**



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Remarks: No data available

### Carcinogenicity: IARC

No ingredient 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 ingredient 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 : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

#### Components:

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 60.2 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 78.3 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae)): 48.3 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 1.5 mg/l  
Exposure time: 35 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 20 mg/l

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 aquatic invertebrates  
 (Chronic toxicity)

 Exposure time: 21 d  
 Method: OECD Test Guideline 211

Toxicity to bacteria

 : EC0: 560 mg/l  
 Exposure time: 3 h  
 Method: OECD Test Guideline 209

 Ecotoxicology Assessment  
 Short-term (acute) aquatic  
 hazard

: Harmful to aquatic life.

 Long-term (chronic) aquatic  
 hazard

: Harmful to aquatic life with long lasting effects.

**Persistence and degradability**
**Components:**

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

 Biodegradability : Result: Inherently biodegradable.  
 Method: OECD Test Guideline 302B

No data available

**Bioaccumulative potential**
**Components:**

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow &lt;= 4).

 Partition coefficient: n-  
 octanol/water

: log Pow: 2.53 (20 °C)

No data available

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

No data available

**Other adverse effects**

No data available

**Product:**

 Additional ecological  
 information

 : An environmental hazard cannot be excluded in the event of  
 unprofessional handling or disposal., Harmful to aquatic life  
 with long lasting effects.

**Components:**
**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

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chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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

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

**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
---------------------

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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**MX\_DG**

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.

**SECTION 15. REGULATORY INFORMATION****TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know****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**

: Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation

**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**

1,2-PROPANEDIOL, 3-(2-

70445-33-9



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ETHYLHEXYLOXY)

### New Jersey Right To Know

1,2-PROPANEDIOL, 3-(2-  
 ETHYLHEXYLOXY)

70445-33-9

### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
AIIC	: Not in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TSCA	: This product is regulated under the United States Food and Drug Act (FDA).
TECI	: On the inventory, or in compliance with the inventory

### Inventories

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

### Other regulations

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) Not applicable



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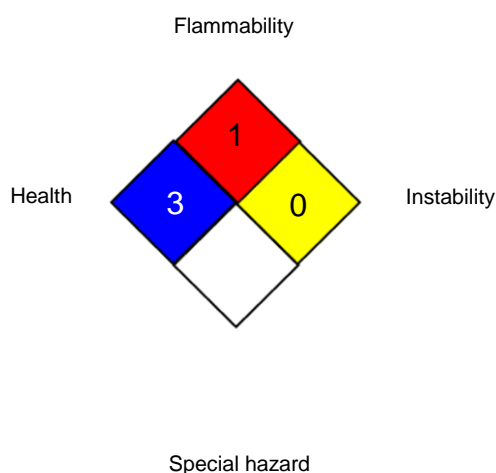
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## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of H-Statements

H318 Causes serious eye damage.  
H332 Harmful if inhaled.

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; 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

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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; TECI - Thailand Existing Chemicals 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


This sds has been prepared by Ashland. (<http://www.ashland.com>)

Sources of key data used to compile the Material Safety Data Sheet : Ashland internal data including own and sponsored test reports  
 European Union Law with content from the Official Journal of the European Union.  
 European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.  
 The German Water Hazard Classes.  
 ReachCentrum; a series of support services to help comply with REACH regulations.  
 The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.  
 Cefic, the European Chemical Industry Council.  
 ESIS European Chemical Substances Information System

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The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the



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specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.  
US / EN