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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Trade name : SENSIDIN DO Additive
 ™ Trademark, Ashland or its subsidiaries, registered in
 various countries

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) EHSProductSafety@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)
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes serious eye damage.

Precautionary Statements : **Prevention:**
 Wear eye protection/ face protection.

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Response:

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 : Mixture

Hazardous ingredients


Chemical name	CAS-No.	Classification	Concentration (%)
PROPYLENE GLYCOL	57-55-6	Not a hazardous substance or mixture.	>=70.00 - < 90.00
1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY)	70445-33-9	Acute Tox. 4; H332 Eye Dam. 1; H318	>=10.00 - < 20.00
N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride	70775-75-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	>=1.00 - < 5.00

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Consult a physician.
 Show this material safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.


If inhaled : If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.

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In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	: Extremely corrosive and destructive to tissue. tearing Blurred vision Irritation Local irritation Causes serious eye damage.
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
Hazardous combustion products	: Carbon dioxide (CO ₂) Carbon monoxide Aldehydes Hydrocarbons Ketones
Specific extinguishing	:

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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.

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 : 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.
To avoid spills during handling keep bottle on a metal tray.
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

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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

PROPYLENE GLYCOL	57-55-6	TWA	10 mg/m3	US WEEL
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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.
 Wash hands before breaks and at the end of workday.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Physical state	: liquid
Color	: colorless, light yellow
Odor	: odorless
Odor Threshold	: not determined
pH	: 5 - 7 (22 °C) Concentration: 8 g/l
Melting point/freezing point	: < -0.40 °F / < -18 °C
Boiling point/boiling range	: > 302 °F / > 150 °C
Flash point	: > 100 °C Method: ISO 2719
Evaporation rate	: not determined
Flammability (solid, gas)	: not determined
Flammability (liquids)	: not determined
Flammability (liquids)	:
Upper explosion limit	: Upper explosion limit Not applicable
Lower explosion limit	: not determined
Vapor pressure	: not determined
Relative vapor density	: not determined
Relative density	: No data available
Density	: 1.014 - 1.027 g/cm ³ (20 °C)

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Solubility(ies) Water solubility	: 10 g/l (22 °C)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not applicable
Thermal decomposition	: No data available
Viscosity Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Flow time	: ca. 20 s at 20 °C Method: DIN 53211
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
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 ₂)

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SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 19.3 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: Calculation method

Components:

PROPYLENE GLYCOL:

Acute oral toxicity : LD50 (Rat): 22,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
 Remarks: No mortality observed at this dose.

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.

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Acute oral toxicity : LD50 (Rat): 800 mg/kg
 Method: OECD Test Guideline 401

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Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

PROPYLENE GLYCOL:

Species: Rabbit

Result: No skin irritation

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

Species: Rabbit

Result: Slight, transient irritation

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Severe skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

PROPYLENE GLYCOL:

Species: Rabbit

Result: No eye irritation

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

Species: Rabbit

Result: Corrosive

Method: OECD Test Guideline 405

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Species: Rabbit

Result: Severe eye irritation

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.


Respiratory sensitization: Not classified based on available information.

Components:

PROPYLENE GLYCOL:

Test Type: Local lymph node assay

Species: Mouse

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Assessment: Does not cause skin sensitization.
 Method: OECD Test Guideline 429

1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY):
 Species: Guinea pig
 Assessment: Does not cause skin sensitization.
 Method: OECD Test Guideline 406

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:
 Test Type: Local lymph node assay
 Species: Guinea pig
 Method: OECD Test Guideline 406
 Result: Not a skin sensitizer.

Germ cell mutagenicity
 Not classified based on available information.

Components:

PROPYLENE GLYCOL:

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

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


N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Genotoxicity in vitro : Test Type: In vitro gene mutation study in bacteria
 Test species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

Carcinogenicity

Not classified based on available information.

Components:

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N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Species: Mouse

Application Route: Dermal

Method: OECD Test Guideline 451

Remarks: Not classified

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

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Effects on fetal development : Species: Rat

Application Route: Oral

Method: OECD Test Guideline 414

Result: Animal testing did not show any effects on fertility.

Remarks: Not classified

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

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Species: Rat

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NOAEL: 32 mg/kg
 Application Route: Oral
 Method: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

Further information

Product:

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 1; Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.


Components:

PROPYLENE GLYCOL:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 29,485 - 39,339 mg/l
 Exposure time: 96 h
 Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 24,200

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mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test

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 aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 20 mg/l
 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.

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:
 Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.17 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.007 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.034 mg/l
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0056 mg/l
 Exposure time: 21 d
 Method: OECD Test Guideline 211

Toxicity to bacteria : EC50 (activated sludge): 2.77 mg/l
 Exposure time: 3 h
 Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg
 Method: OECD Test Guideline 207

EC50 (Toxicity to microorganisms): > 1,000 mg/kg
 Method: OECD Test Guideline 216

Plant toxicity : LC50 (Lactuca sativa (lettuce)): > 1,000 mg/kg
 Method: OECD Test Guideline 208

Persistence and degradability

Components:

PROPYLENE GLYCOL:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 81 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F


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

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

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Biodegradability : aerobic
 Result: Not readily biodegradable.
 Exposure time: 28 d
 Method: OECD Test Guideline 301D

No data available

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Bioaccumulative potential

Components:

PROPYLENE GLYCOL:

Partition coefficient: n-octanol/water : log Pow: -0.92

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

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

Partition coefficient: n-octanol/water : log Pow: 2.53 (20 °C)

N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride:

Partition coefficient: n-octanol/water : log Pow: 1.5 (23 °C)
Method: OECD Test Guideline 123

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., Very toxic to aquatic life., Toxic 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 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.

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SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

Not dangerous goods	MARINE POLLUTANT:(N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride)

CFR_RAIL_C

Not dangerous goods	MARINE POLLUTANT:(N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride)

U.S. DOT - INLAND WATERWAYS

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Not dangerous goods	MARINE POLLUTANT:(N-octyl-1-[10- (4- octyliminopyridi n-1- yl)decyl]pyridin -4-imine dihydrochloride)
---------------------	--

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods	MARINE POLLUTANT:(N-octyl-1-[10- (4- octyliminopyridi n-1- yl)decyl]pyridin -4-imine dihydrochloride)
---------------------	--

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-octyl-1-[10- (4-octyliminopyridin-1- yl)decyl]pyridin-4-imine dihydrochloride)	9	III	MARINE POLLUTANT:(N-octyl-1-[10- (4- octyliminopyridi n-1- yl)decyl]pyridin -4-imine dihydrochloride)
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride)	9	III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride)	9	III

MX DG

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride)	9	III

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes
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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

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

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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 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

PROPYLENE GLYCOL	57-55-6
1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY)	70445-33-9

New Jersey Right To Know

PROPYLENE GLYCOL	57-55-6
1,2-PROPANEDIOL, 3-(2-ETHYLHEXYLOXY)	70445-33-9
N-octyl-1-[10-(4-octyliminopyridin-1-yl)decyl]pyridin-4-imine dihydrochloride	70775-75-6


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

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DSL	: This product contains components that are not on the Canadian DSL nor NDSL.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Record Notification
TSCA	: This product is regulated under the United States Food and Drug Act (FDA).

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

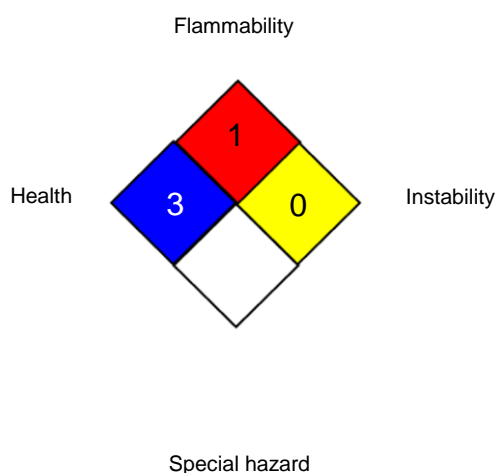
US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310)	Not applicable
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SECTION 16. OTHER INFORMATION

Further information

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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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Full text of other abbreviations

AIIIC - 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 Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -

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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

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not to be considered a warranty or quality specification. The information relates only to the 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.
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