

TERMIX® 5303

Version SDS Number: Date of last issue: -Revision Date:

1.0 12/08/2019 400041003908 Date of first issue: 12/08/2019

Print Date 03/31/2021

SECTION 1. IDENTIFICATION

Product name : TERMIX® 5303

Manufacturer or supplier's details

Company name of supplier

: Indorama Ventures Oxides LLC 24 Waterway Ave., Suite 1100 Address

> The Woodlands, Texas 77380

United States of America (USA)

Telephone : (256) 3405200

Manufacturer or supplier's details

E-mail address of person responsible for the SDS

: SDSHUN@indorama.net

Emergency telephone number : CHEMTREC - USA (English)

Local Number (National): +1 703-741-5970

Toll-Free Number: 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Sub-category 1B

Short-term (acute) aquatic

hazard

: Category 1

Long-term (chronic) aquatic

hazard

: Category 2

GHS label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:



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P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment. P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Storage: Not available Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
4-Nonylphenol branched, ethoxylated	127087-87-0	13 - 30
Amines, tallow alkyl, ethoxylated	61791-26-2	13 - 30
Alcohols, C12-16, ethoxylated	68551-12-2	13 - 30
4-Nonylphenol branched, ethoxylated (EO=6)	127087-87-0	7 - 13

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this 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.



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If symptoms persist, call a physician.

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

: None known.

SECTION 5. FIREFIGHTING 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

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

Specific extinguishing

methods

: No data is available on the product itself.

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 firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation.

In case of inadequate ventilation wear respiratory protection.

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

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.

Advice on safe handling

: Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

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 trav. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

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

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment

indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.



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Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : Impervious gloves

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Ensure that eyewash stations and safety showers are close

to the workstation location.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear

Odour : neutral

Odour Threshold : No data is available on the product itself.

pH : 6.5

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : 250 °F / 121 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.



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Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : 0.85312 hPa (68 °F / 20 °C)

Relative vapour density : No data is available on the product itself.

Relative density : 0.98

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : No data is available on the product itself.

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

Viscosity, dynamic : 74 mPa.s (104 °F / 40 °C)

Viscosity, kinematic : 74 mm2/s (104 °F / 40 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous : No dec

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Hazardous decomposition

products

Aldehydes

Carbon dioxide (CO2)
Carbon monoxide



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Ketones

Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.

exposure

Acute toxicity

Acute oral toxicity - Product : LD50 (Rat): 2,000 - 5,000 mg/kg

: No data available Acute inhalation toxicity

Acute dermal toxicity -: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method Product

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

No data available Assessment:

Germ cell mutagenicity

Components:

Alcohols, C12-16, ethoxylated:

Genotoxicity in vitro Concentration: 5 - 50 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Concentration: .5 - 100 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes



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Concentration: .0001 - .1 µg/L

Metabolic activation: Metabolic activation Method: OECD Test Guideline 482

Result: negative

GLP: yes

Concentration: 2000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: no

Genotoxicity in vivo : No data available

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

Alcohols, C12-16, ethoxylated: Species: Rat, male and female

Application Route: Oral Exposure time: 24 month(s)

Dose: 500 mg/kg Result: negative

Carcinogenicity -

Assessment

: No data available

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.

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

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.

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.



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Reproductive toxicity

Components:

Amines, tallow alkyl, ethoxylated:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

Alcohols, C12-16, ethoxylated:

Species: Rat, male and female

Application Route: Oral Target Organs: Liver

GLP: ves

Components:

Amines, tallow alkyl, ethoxylated:

Effects on foetal : Species: Rat, female development : Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

15 mg/kg body weight

Result: No teratogenic effects

Alcohols, C12-16, ethoxylated:

Species: Rat, male and female Application Route: Dermal Result: No teratogenic effects

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

4-Nonylphenol branched, ethoxylated:

Species: Rat NOEL: 40 mg/kg

Application Route: Ingestion Exposure time: 2,160 h Method: Subchronic toxicity

Species: Rat

NOAEL: > 200 mg/kg/d Application Route: Ingestion Exposure time: 2 yr

Exposure time: 2 yr Method: Chronic toxicity

Amines, tallow alkyl, ethoxylated:



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Species: Rat, male and female

NOAEL: 500 ppm

Application Route: Ingestion Exposure time: 2,160 h Method: Subchronic toxicity

Alcohols, C12-16, ethoxylated: Species: Rat, male and female

NOAEL: 110 mg/kg/d Application Route: Ingestion Exposure time: 2,160 h Method: Subchronic toxicity

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:



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4-Nonylphenol branched, ethoxylated:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.3 mg/l

Exposure time: 96 h

Amines, tallow alkyl, ethoxylated:

Toxicity to fish : LC50: 0.5 mg/l

Exposure time: 96 h

LC50: 0.13 mg/l Exposure time: 96 h

Alcohols, C12-16, ethoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

GLP: yes

Components:

Amines, tallow alkyl, ethoxylated:

Toxicity to daphnia and other : EC50: 2.4 mg/l aquatic invertebrates : Exposure time: 48 h

EC50: 0.17 mg/l Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Alcohols, C12-16, ethoxylated:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.7 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.2.

GLP: yes

Toxicity to algae/aquatic

plants

: No data available

Components:

Amines, tallow alkyl, ethoxylated: M-Factor (Acute aquatic : 1

toxicity)

Alcohols, C12-16, ethoxylated:

M-Factor (Acute aquatic : 1

toxicity)

Components:

Alcohols, C12-16, ethoxylated:

Toxicity to fish (Chronic : EC20 (Pimephales promelas (fathead minnow)): 0.91 mg/l

toxicity) Exposure time: 30 d

Test substance: Fresh water

Components:



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Amines, tallow alkyl, ethoxylated:

Toxicity to daphnia and other : EC10: 0.00107 mg/l aquatic invertebrates Exposure time: 48 hrs (Chronic toxicity) Test substance: Fresh water

Alcohols, C12-16, ethoxylated:

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : EC20 (Daphnia magna (Water flea)): 0.48 mg/l

Exposure time: 21 d

Test substance: Fresh water

Components:

Amines, tallow alkyl, ethoxylated: M-Factor (Chronic aquatic

toxicity)

Components:

Alcohols, C12-16, ethoxylated:

Toxicity to microorganisms EC50 (activated sludge): 1,000 mg/l

> Exposure time: 3 h Test Type: static test

Test substance: Fresh water

Components:

Alcohols, C12-16, ethoxylated:

Toxicity to soil dwelling : NOEC (Eisenia fetida (earthworms)): 220 mg/kg

Test substance: Natural organisms

Method: OECD Test Guideline 222

Components:

Alcohols, C12-16, ethoxylated:

Plant toxicity NOEC: >= 100 mg/kg

Exposure time: 456 h Test substance: Natural

Method: Terrestrial Plants Test: Seedling Emergence and

Seedling Growth Test

GLP: yes

: No data available Sediment toxicity

Components:

Alcohols, C12-16, ethoxylated:

Toxicity to terrestrial : EC50: 270 mg/kg Exposure time: 144 h organisms

Test substance: Natural

Ecotoxicology Assessment

Components:

Alcohols, C12-16, ethoxylated:

Acute aquatic toxicity : Very toxic to aquatic life.

4-Nonylphenol branched, ethoxylated (EO=6):

Acute aquatic toxicity : Harmful to aquatic life.



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Components:

Alcohols, C12-16, ethoxylated:

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

4-Nonylphenol branched, ethoxylated (EO=6):

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

4-Nonylphenol branched, ethoxylated:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 58 % Exposure time: 34 d

Inoculum: Mixture

Result: Not readily biodegradable. Biodegradation: 50 - 80 % Exposure time: 42 d

Alcohols, C12-16, ethoxylated:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 78 % Exposure time: 28 d

Method: OECD Test Guideline 301B

4-Nonylphenol branched, ethoxylated (EO=6):

Biodegradability : Result: Not readily biodegradable.

Biodegradation: < 60 % Exposure time: 28 d

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical : No data available

removability



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Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Components:

Alcohols, C12-16, ethoxylated:

Bioaccumulation : Bioconcentration factor (BCF): < 800

Test substance: Fresh water Remarks: Does not bioaccumulate.

Components:

Alcohols, C12-16, ethoxylated:

Partition coefficient: n-

octanol/water

: log Pow: 5.24 - 5.44 (77 °F / 25 °C)

Mobility in soil

Mobility : No data available

Components:

Alcohols, C12-16, ethoxylated:

Distribution among

environmental compartments

: Koc: 19612.02 - 24351.32

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).



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Additional ecological information - Product

: 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.

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA

UN/ID No. : UN 3267

Proper shipping name : Corrosive liquid, basic, organic, n.o.s.

(TALLOW AMINE, ETHOXYLATED)

Class : 8 Packing group : III

Labels : Class 8 - Corrosive substances

Packing instruction (cargo

aircraft)

: 856

Packing instruction

(passenger aircraft)

: 852

IMDG

UN number : UN 3267

Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

(TALLOW AMINE, ETHOXYLATED)

Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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National Regulations

DOT Classification

UN/ID/NA number : UN 3267

Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

(TALLOW AMINE, ETHOXYLATED)

Class : 8 Packing group : III

Labels : Class 8 - Corrosive substances

ERG Code : 153

Marine pollutant : yes(TALLOW AMINE, ETHOXYLATED)

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
ethylene oxide	75-21-8	10	*	
* 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitisation

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.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING: This product can expose you to chemicals including ethylene oxide, 1,4-dioxane, which is/are known to the State of California to cause cancer, and

ethylene oxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

CH INV : On the inventory, or in compliance with the inventory



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DSL		: All components of	Print Date 03/31/2021 this product are on the Canadian DSL
AICS		: On the inventory,	or in compliance with the inventory
NZIoC		: On the inventory,	or in compliance with the inventory
ENCS		: 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
TCSI		: On the inventory,	or in compliance with the inventory
TSCA		: All substances list	ed as active on the TSCA 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)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

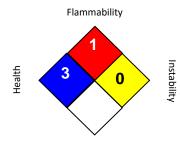
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

HMIS® IV:



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

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