

# **SURFONIC® L24-7**

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

1.0 12/08/2019 400041002038 Date of first issue: 12/08/2019

Print Date 02/03/2020

## **SECTION 1. IDENTIFICATION**

Product name : SURFONIC® L24-7

Manufacturer or supplier's details

Company name of supplier

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

> 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

Recommended use of the chemical and restrictions on use

Recommended use : Surfactant

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4

Serious eye damage : Category 1

Short-term (acute) aquatic

hazard

: Category 2

Long-term (chronic) aquatic

hazard

: Category 3

**GHS** label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements : **Prevention:** 

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor

if you feel unwell.

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.

Storage: Not available Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international

regulations.

Other hazards

None known.

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

Substance / Mixture : Substance

## **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Alcohols, C12-16, ethoxylated	68551-12-2	90 - 100

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.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

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



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of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

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.

Notes to physician

: Treat symptomatically.

# **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**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

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



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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 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.

: Keep container tightly closed in a dry and well-ventilated place. Conditions for safe storage

Containers which are opened must be carefully resealed and kept

upright to prevent leakage.

Keep in properly labelled containers.

Materials to avoid For incompatible materials please refer to Section 10 of this

SDS.

Further information on

storage stability

Stable under normal conditions.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

: General and local exhaust ventilation is recommended to Respiratory protection

> maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other

circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

The suitability for a specific workplace should be discussed Remarks

with the producers of the protective gloves.



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Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

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 : slight

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

pH : 6-7

Melting point : 55 - 63 °F / 13 - 17 °C

Boiling point :  $> 212 \, ^{\circ}\text{F} / > 100 \, ^{\circ}\text{C}$ 

Flash point : 374.9 °F / 190.5 °C

Method: open cup

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

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

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

Relative vapour density : 17

Relative density : 0.97

Density : No data is available on the product itself.

Solubility(ies)

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



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

Partition coefficient: n-

Auto-ignition temperature

octanol/water

: No data is available on the product itself.

: 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, kinematic : 33 mm2/s (100.0 °F / 37.8 °C)

Explosive properties No data is available on the product itself.

Oxidizing properties None.

Molecular weight : Calculation method 505.4 g/mol

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

Possibility of hazardous

reactions

: Stable under normal conditions.

: No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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

exposure

**Acute toxicity** 

Acute oral toxicity - Product : Acute toxicity estimate : 1,391 mg/kg

Method: Calculation method

: No data available Acute inhalation toxicity

: Acute toxicity estimate : 2,525 mg/kg Acute dermal toxicity -

Product Method: Calculation method



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Acute toxicity (other routes of : No data available

administration)

#### Skin corrosion/irritation

# Components:

Alcohols, C12-16, ethoxylated:

Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404 Result: Normally reversible injuries

# Serious eye damage/eye irritation

# Components:

Alcohols, C12-16, ethoxylated:

Species: Rabbit

Result: Risk of serious damage to eyes. Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

# Respiratory or skin sensitisation

#### Components:

Alcohols, C12-16, ethoxylated:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Assessment: Does not cause skin sensitisation.

# Germ cell mutagenicity

## **Components:**

Alcohols, C12-16, ethoxylated:

Genotoxicity in vitro : Concentration: .5 - 500 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: .025 - 5 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 482

Result: negative

**Product:** 

: Application Route: Intraperitoneal injection Genotoxicity in vivo

Dose: 75 mg/kg

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity-

Assessment

: No data available



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Carcinogenicity

No data available

Carcinogenicity - : No data available

Assessment

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.

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.

Reproductive toxicity

**Product:** 

Effects on fertility : Species: Rat, male and female

**Application Route: Oral** 

General Toxicity - Parent: No observed adverse effect level: >

250 mg/kg body weight

General Toxicity F1: No observed adverse effect level: > 250

mg/kg body weight

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

**Product:** 

Effects on foetal : Species: Rat, male and female development : Application Route: Dermal

Dose: 250 milligram per kilogram

General Toxicity Maternal: > 250 mg/kg body weight

Teratogenicity: > 250 mg/kg body weight

Result: No teratogenic effects

**Product:** 

Reproductive toxicity -

Assessment

: No toxicity to reproduction

STOT - single exposure

No data available

STOT - repeated exposure

No data available



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# Repeated dose toxicity

## **Product:**

Species: Rat, male and female

NOAEL: 100 mg/kg/d Application Route: Ingestion Exposure time: 90 Days Method: Subchronic toxicity

Species: Rat, male and female

NOAEL: 100 mg/kg/d Application Route: Ingestion Exposure time: 90 Days Method: Subchronic toxicity

Species: Rat, male and female

NOAEL: 100 mg/kg/d Application Route: Ingestion Exposure time: 90 Days Method: Subchronic toxicity

Repeated dose toxicity -

Assessment

: No adverse effect has been observed in chronic toxicity

tests.

# **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**

Ingestion: No data available



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## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Components:

Alcohols, C12-16, ethoxylated:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 3 mg/l

Exposure time: 96 h

Test substance: Fresh water

**Components:** 

Alcohols, C12-16, ethoxylated:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1.9 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Toxicity to algae/aquatic

plants

: No data available

M-Factor (Acute aquatic

toxicity)

: No data available

**Components:** 

Alcohols, C12-16, ethoxylated:

Toxicity to fish (Chronic

toxicity)

EC20 (Pimephales promelas (fathead minnow)): 1.58 mg/l

Exposure time: 30 d

Test substance: Fresh water

Components:

Alcohols, C12-16, ethoxylated:

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

: EC20 (Daphnia magna (Water flea)): 0.98 mg/l

Exposure time: 21 d

Test substance: Fresh water

M-Factor (Chronic aquatic

toxicity)

: No data available

Components:

Alcohols, C12-16, ethoxylated:

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10 g/l

Exposure time: 16.9 h
Test Type: static test
Test substance: Fresh water
Method: DIN 38 412 Part 8

Toxicity to soil dwelling

organisms

: No data available

Components:

Alcohols, C12-16, ethoxylated:

Plant toxicity : NOEC: >= 100 mg/kg



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Exposure time: 456 h
Test substance: Natural

Method: Terrestrial Plants Test: Seedling Emergence and

Seedling Growth Test

Sediment toxicity : No data available

**Components:** 

Alcohols, C12-16, ethoxylated:

Toxicity to terrestrial : EC50: 360 mg/kg organisms Exposure time: 72

Exposure time: 72 h Test substance: Natural

**Ecotoxicology Assessment** 

Components:

Alcohols, C12-16, ethoxylated:

Acute aquatic toxicity : Toxic to aquatic life.

Components:

Alcohols, C12-16, ethoxylated:

Chronic aquatic toxicity : Harmful 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

Biodegradability - Product : Result: Readily biodegradable.

Biodegradation: 100 % 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

removability

: No data available

Stability in water : No data available

Photodegradation : No data available



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Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

**Components:** 

Alcohols, C12-16, ethoxylated:

Bioaccumulation Species: Pimephales promelas (fathead minnow)

Bioconcentration factor (BCF): 12.7

Exposure time: 3 d

Test substance: Fresh water Method: flow-through test

Remarks: Does not bioaccumulate.

**Components:** 

Alcohols, C12-16, ethoxylated:

Partition coefficient: n-

octanol/water

: log Pow: 4.24 - 5.14

Mobility in soil

Mobility : No data available

**Components:** 

Alcohols, C12-16, ethoxylated:

Distribution among

environmental compartments

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

: Koc: 27134.54 - 71865.83

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).

: An environmental hazard cannot be excluded in the event of Additional ecological



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information - Product unprofessional handling or disposal.

Toxic to aquatic life.

Harmful 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.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

# **SECTION 14. TRANSPORT INFORMATION**

## International Regulations

#### IATA

Not regulated as dangerous goods

#### **IMDG**

Not regulated as dangerous goods

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

Not applicable for product as supplied.

## **National Regulations**

# **DOT Classification**

Not regulated as dangerous goods

## **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	*



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1,4-dioxane	123-91-1	100	*
acetic acid	64-19-7	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Serious eye damage or eye irritation

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 can expose you to chemicals including 1,4-dioxane, ethylene oxide, 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

DSL : All components of 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 listed 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.



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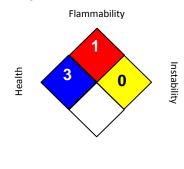
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#### **Further information**

#### 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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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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