

# **SURFONIC® L12-8 (IVL)**

Version Revision Date: SDS Number: Date of last issue: 12/23/2021 1.1 02/24/2022 400041002771 Date of first issue: 12/23/2021

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#### **SECTION 1. IDENTIFICATION**

Product name : SURFONIC® L12-8 (IVL)

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

E-mail address of person

: oxide.sds.global@indorama.net

responsible for the SDS
Emergency telephone number:

CHEMTREC – United States (English)

Local (City) Northern Virginia: +1 703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : Surfactant

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4

Serious eye damage : Category 1

Short-term (acute) aquatic

hazard

Category 2

**GHS** label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

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 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with



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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

#### 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**

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Alcohols, C10-14, ethoxylated	66455-15-0	>= 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.

Small amounts splashed into eyes can cause irreversible tis-In case of eye contact

sue 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.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

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

Protection of first-aiders

None known.

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

No action shall be taken involving any personal risk or without



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suitable training.

Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES** 

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Specific hazards during fire

fighting

Exercise caution when using a high volume water jet as it may

scatter and spread fire

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

courses.

Hazardous combustion prod-

ucts

No hazardous combustion products are known

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 nec-

essary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protec- :

tive equipment and emer-

gency 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

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 vapours/dust.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication 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.



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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 stor-

age stability

Stable under normal conditions.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Ingredients 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 com-

plying with an approved standard if a risk assessment indi-

cates 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.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

Color : Clear

Odor : slight

pH : 7

Concentration: 1,000 g/l

Flash point : 343 °F / 173 °C

Method: closed cup

Relative vapor density : 1



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1.0015 Relative density

Density 1 g/cm3

Solubility(ies)

Water solubility soluble

Partition coefficient: n-

octanol/water

Viscosity

Viscosity, kinematic 27 mm2/s (104 °F / 40 °C)

Molecular weight ca. 517.89 g/mol

## **SECTION 10. STABILITY AND REACTIVITY**

No dangerous reaction known under conditions of normal use. Reactivity

log Pow: 2.93 - 3.93

Chemical stability Stable under normal conditions.

Possibility of hazardous reac-

tions

No hazards to be specially mentioned.

Conditions to avoid None known. Incompatible materials None known. Hazardous decomposition Carbon monoxide products

Carbon dioxide (CO2)

Ketones Aldehydes Organic acids

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

#### **Components:**

### Alcohols, C10-14, ethoxylated:

Acute oral toxicity LD50 (Rat): 1,000 mg/kg

LC50 (Rat): > 1600 mg/m3 Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg

#### Skin corrosion/irritation

# **Components:**

## Alcohols, C10-14, ethoxylated:

**Species** Rabbit

Method OECD Test Guideline 404 Result Severe skin irritation

**Species** Rabbit

Method **OECD Test Guideline 404** 



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Result : No skin irritation

#### Serious eye damage/eye irritation

## **Components:**

## Alcohols, C10-14, ethoxylated:

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

GLP : yes

### Respiratory or skin sensitization

#### Components:

## Alcohols, C10-14, ethoxylated:

Routes of exposure : Skin Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

#### Germ cell mutagenicity

#### Components:

## Alcohols, C10-14, ethoxylated:

Genotoxicity in vitro : Concentration: 2 - 100 ug/L

Method: OECD Test Guideline 476

Result: negative

Concentration: 5 - 50 ug/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Cell type: Germ + somatic

Application Route: Oral Exposure time: 24 h Dose: 1.25 - 3.4 g/kg

Method: OECD Test Guideline 475

Result: negative

GLP: no

Cell type: Germ + somatic

Method: OECD Test Guideline 474

Result: negative GLP: yes

## Carcinogenicity

## **Components:**

# Alcohols, C10-14, ethoxylated:

Species : Rat, male and female



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Application Route : Oral

Exposure time : 24 month(s)

Dose : 500 mg/kg

Result : negative

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

## Reproductive toxicity

### **Components:**

#### Alcohols, C10-14, ethoxylated:

Effects on fertility : Species: Rat, male and female

Application Route: Dermal Target Organs: Heart

Method: OECD Test Guideline 416

Target Organs: Liver

Target Organs: Lungs

Target Organs: Kidney

**Target Organs: Testes** 

Species: Rabbit, female Application Route: Oral Target Organs: ovaries

GLP: no

Effects on fetal development : Species: Rat, male and female

Application Route: Dermal Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: NOAEL: > 250 mg/kg body weight

Result: No teratogenic effects

## Repeated dose toxicity

### **Components:**

#### Alcohols, C10-14, ethoxylated:

Species : Rat, male and female NOAEL : >= 500 mg/kg/d Application Route : Ingestion

Exposure time : 2,160 h



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Species : Rat, male and female

NOAEL : > 150 mg/kg/d
Application Route : Ingestion
Exposure time : 2,160 h

Species : Rat, male and female

NOAEL : 80 mg/kg/d Application Route : Ingestion Exposure time : 2,160 h

### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## **Product:**

## **Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

### **Components:**

## Alcohols, C10-14, ethoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 14.63 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 5.64 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 15 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water

Toxicity to fish (Chronic tox-

icity)

EC20 (Pimephales promelas (fathead minnow)): 3.01 mg/l

Exposure time: 30 d

Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

EC20 (Daphnia magna (Water flea)): 3.35 mg/l

Exposure time: 21 d

Test substance: Fresh water

Toxicity to microorganisms : IC50 (Pseudomonas putida): > 10

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

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d

Plant toxicity : NOEC: >= 100 mg/kg

Exposure time: 456 h



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Test substance: Natural

GLP: yes

Persistence and degradability

Components:

Alcohols, C10-14, ethoxylated:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

**Bioaccumulative potential** 

**Product:** 

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

**Components:** 

Alcohols, C10-14, ethoxylated:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 12.7

Exposure time: 3 d

Test substance: Fresh water Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 2.93 - 3.93

Mobility in soil

**Components:** 

Alcohols, C10-14, ethoxylated:

Distribution among environ-

mental compartments

Koc: 4301.18 - 12639.68

Other adverse effects

**Product:** 

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

tection 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).

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water



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courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal 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**

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

## **CERCLA Reportable Quantity**

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

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

## SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

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.



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#### Clean Air Act

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).

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

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### **US State Regulations**

## Massachusetts Right To Know

ethylene oxide 75-21-8

# Pennsylvania Right To Know

Alcohols, C10-14, ethoxylated 66455-15-0

# Maine Chemicals of High Concern

Product does not contain any listed chemicals

### **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

#### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

#### California Prop. 65

WARNING: This product can expose you to chemicals including ethylene oxide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

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



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TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

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

#### **SECTION 16. OTHER INFORMATION**

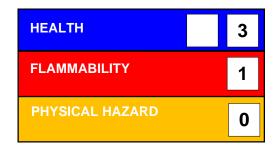
#### **Further information**

#### NFPA 704:

# Health 3 0 Instability

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.

#### 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 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 Admin-



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istration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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 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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