

TERSPERSE 2612

SDS Number: Date of last issue: 07/02/2020 Version Revision Date: 2.0 08/07/2020 400041014331 Date of first issue: 12/08/2019

Print Date 08/09/2020

SECTION 1. IDENTIFICATION

Product name : TERSPERSE 2612

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)

: (256) 3405200 Telephone

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 : Dispersing agent

Industrial use

SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 4

GHS label elements

Signal word : Warning

: H227 Combustible liquid. Hazard statements

Precautionary statements : Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

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

regulations.



TERSPERSE 2612

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/02/2020

 2.0
 08/07/2020
 400041014331
 Date of first issue: 12/08/2019

Print Date 08/09/2020

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
(2-methoxymethylethoxy)propanol	34590-94-8	30 - 50

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 : 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 on skin, rinse well with water.

If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)

Unsuitable extinguishing

media

High volume water jet

Specific hazards during : No information available.



TERSPERSE 2612

Version Revision Date: SDS Number: Date of last issue: 07/02/2020 2.0 08/07/2020 400041014331 Date of first issue: 12/08/2019

Print Date 08/09/2020

firefighting

Hazardous combustion

products

: No hazardous combustion products are known

Further information : For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

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 Refer to protective measures listed in sections 7 and 8.

Environmental precautions : 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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,

vermiculite) and place in container for disposal according to

local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : No smoking.

Keep in a well-ventilated place. Observe label precautions.

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.



TERSPERSE 2612

Version Revision Date: SDS Number: Date of last issue: 07/02/2020 2.0 08/07/2020 400041014331 Date of first issue: 12/08/2019

Print Date 08/09/2020

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
(2- methoxymethylethoxy)propano	34590-94-8	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm 600 mg/m3	OSHA Z-1
		TWA	100 ppm 600 mg/m3	NIOSH REL
		ST	150 ppm 900 mg/m3	NIOSH REL
		TWA	100 ppm 600 mg/m3	OSHA P0
		STEL	150 ppm 900 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : 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

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 : Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear

yellow

Odour : slight, characteristic

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

pH : 4-6

Concentration: 1 %



TERSPERSE 2612

Version Revision Date: SDS Number: Date of last issue: 07/02/2020 2.0 08/07/2020 400041014331 Date of first issue: 12/08/2019

Print Date 08/09/2020

(as aqueous solution)

Melting point : -22 °F / -30 °C

Boiling point : 363 °F / 184 °C

Flash point : 167 °F / 75 °C

Method: Pensky-Martens closed 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 : No data is available on the product itself.

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

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

Density : 1.03 g/cm3 (77 °F / 25 °C)

Solubility(ies)

Water solubility : soluble

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 : \leq 800 mPa.s (77 °F / 25 °C)

Viscosity, kinematic : 375.5 mm2/s (77 °F / 25 °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.



TERSPERSE 2612

Date of last issue: 07/02/2020 Version Revision Date: SDS Number: 2.0 08/07/2020 400041014331 Date of first issue: 12/08/2019

Print Date 08/09/2020

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

: Vapours may form explosive mixture with air.

Conditions to avoid Heat, flames and sparks.

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

Components:

(2-methoxymethylethoxy)propanol:

: LD50 (Rat, male and female): > 5,000 mg/kg Acute oral

Method: OECD Test Guideline 401 toxicityComponents

Components:

(2-methoxymethylethoxy)propanol:

Acute inhalation toxicity : LC50 (Rat, male and female): > 275 ppm

> Exposure time: 7 h Test atmosphere: vapour

Method: OECD Test Guideline 403

Components:

(2-methoxymethylethoxy)propanol:

Acute dermal toxicity : LD50 (Rat): > 19,020 mg/kg

Method: OECD Test Guideline 402

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

(2-methoxymethylethoxy)propanol:

Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404



TERSPERSE 2612

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/02/2020

 2.0
 08/07/2020
 400041014331
 Date of first issue: 12/08/2019

Print Date 08/09/2020

Result: No skin irritation

Serious eye damage/eye irritation

Components:

(2-methoxymethylethoxy)propanol:

Species: Humans Result: No eye irritation Assessment: No eye irritation

Respiratory or skin sensitisation

Components:

(2-methoxymethylethoxy)propanol:

Exposure routes: Skin Species: Humans

Assessment: Does not cause skin sensitisation. Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

(2-methoxymethylethoxy)propanol:

Genotoxicity in vitro : Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: 1482 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Concentration: 5 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 481

Result: negative

Genotoxicity in vivo : No data available

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

(2-methoxymethylethoxy)propanol: Species: Rat, male and female Application Route: Inhalation Exposure time: 24 month(s)

Dose: 3000 ppm

Frequency of Treatment: 6 hour Method: OECD Test Guideline 453



TERSPERSE 2612

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/02/2020

 2.0
 08/07/2020
 400041014331
 Date of first issue: 12/08/2019

Print Date 08/09/2020

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.

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.

OSHANo 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

Effects on fertility : No data available

Components:

(2-methoxymethylethoxy)propanol:

Effects on foetal : Species: Rat, female

development Application Route: Inhalation

General Toxicity Maternal: No observed adverse effect level:

300 ppm

Method: Inhalation Developmental Toxicity Screen

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:

(2-methoxymethylethoxy)propanol: Species: Rat, male and female NOEC: 2850 mg/kg, 200 ppm Application Route: Skin contact Test atmosphere: vapour Exposure time: 13 Weeks Number of exposures: 6 h

Method: OECD Test Guideline 413



TERSPERSE 2612

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/02/2020

 2.0
 08/07/2020
 400041014331
 Date of first issue: 12/08/2019

Print Date 08/09/2020

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

Ingestion: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

(2-methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

Components:

(2-methoxymethylethoxy)propanol:

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 1,919 mg/l

aquatic invertebrates Exposure time: 48 h

Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202



TERSPERSE 2612

Date of last issue: 07/02/2020 Version **Revision Date:** SDS Number: 2.0 08/07/2020 400041014331 Date of first issue: 12/08/2019

Print Date 08/09/2020

Components:

(2-methoxymethylethoxy)propanol:

Toxicity to algae/aquatic

plants

: EC50 (Selenastrum capricornutum (green algae)): > 969 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Components:

(2-methoxymethylethoxy)propanol:

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): > 0.5 mg/l

Exposure time: 22 d

Test Type: flow-through test Test substance: Fresh water Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: No data available

: No data available Toxicity to microorganisms

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

: No data available Acute aquatic toxicity

Components:

(2-methoxymethylethoxy)propanol:

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

(2-methoxymethylethoxy)propanol:



TERSPERSE 2612

Version SDS Number: Date of last issue: 07/02/2020 **Revision Date:** 2.0 08/07/2020 400041014331 Date of first issue: 12/08/2019

Print Date 08/09/2020

Biodegradability : Inoculum: activated sludge

> Concentration: 79.5 mg/l Result: Readily biodegradable.

Biodegradation: 96 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Biochemical Oxygen

Demand (BOD)

: No data available

Components:

(2-methoxymethylethoxy)propanol:

Chemical Oxygen Demand : 2051 mgO2/g

(COD)

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

: No data available Stability in water

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Components:

(2-methoxymethylethoxy)propanol:

Bioaccumulation : Bioconcentration factor (BCF): 99

Components:

(2-methoxymethylethoxy)propanol:

Partition coefficient: n-: log Pow: 0.043 (77 °F / 25 °C)

pH: 7.5 - 7.7 octanol/water

Method: OECD Test Guideline 107

Mobility in soil

Mobility : No data available

Components:

(2-methoxymethylethoxy)propanol: : Koc: 50 Distribution among

environmental compartments



TERSPERSE 2612

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/02/2020

 2.0
 08/07/2020
 400041014331
 Date of first issue: 12/08/2019

Print Date 08/09/2020

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).

Additional ecological

information

: No data available

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

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.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations



TERSPERSE 2612

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/02/2020

 2.0
 08/07/2020
 400041014331
 Date of first issue: 12/08/2019

Print Date 08/09/2020

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

UN/ID/NA number : NA 1993

Proper shipping name : COMBUSTIBLE LIQUID, N.O.S.

(Dipropylene glycol monomethyl ether)

Class : CBL
Packing group : III
Labels : NONE
ERG Code : 128
Marine pollutant : no

Remarks : Above applies only to containers over 119 gallons or 450

liters. Not regulated if shipped in packages less than or equal

to 119 gallons (450 liters).

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

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

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

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

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



TERSPERSE 2612

Version	Revision Date:	SDS Number:	Date of last issue: 07/02/2020
2.0	08/07/2020	400041014331	Date of first issue: 12/08/2019

Print Date 08/09/2020

П

AICS : Approved for Agrochemical use only

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

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

KECI : Not 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 : On or in compliance with the active portion of the TSCA

inventory

Inventories

AICS (Australia), AIIC (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.

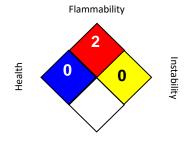
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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

Revision Date : 08/07/2020



TERSPERSE 2612

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/02/2020

 2.0
 08/07/2020
 400041014331
 Date of first issue: 12/08/2019

Print Date 08/09/2020

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit OSHA Z-1 / TWA : 8-hour time weighted average

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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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