

SAFETY DATA SHEET

KIERALON DTC 100 MM LIQ

Version 2.2 Revision Date: 09/08/2020 SDS Number: CLT264205-V1 Date of last issue: 10/04/2018
Date of first issue: 09/12/2013

SECTION 1. IDENTIFICATION

Identification of the company:	Dharma Trading Company 1805 South McDowell Boulevard Ext. Petaluma, CA 94954
Information of the substance/preparation:	Product Stewardship +1 704-353-4120
Emergency tel. number:	+1 866-928-0789 (NCEC)

Trade name: KIERALON DTC 100 MM LIQ
Material number: 149791
Alpha Code: SPNDTCMM
Formula: Mixture
Chemical family: Ethoxylated Compound

Recommended use of the chemical and restrictions on use

Recommended use: Textile auxiliary

Recommended restrictions on use: Unknown

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

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P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

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.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Tridecanol, branched, ethoxylated (6 EO), carboxymethylated, sodium salt	68891-17-8	30 - 40
Alcohols, C11-14-iso-, C13-rich, ethoxylated (6-20 EO)	78330-21-9	20 - < 30
2-(2-butoxyethoxy)ethanol	112-34-5	5 - < 10
Sodium chloride	7647-14-5	1 - < 5
Propan-2-ol	67-63-0	1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : Remove/Take off immediately all contaminated clothing. Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g. wear personal protection equipment).

If inhaled : Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

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If swallowed : IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.

Notes to physician : None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : water
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Thermal decomposition may produce oxides of carbon.

Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full facepiece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

Further information : Cool endangered containers with water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Self-contained breathing apparatus
Full protective suit

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Ventilate the area.
Information regarding Safe handling, see chapter 7.
For personal protection see section 8.
Information regarding Waste Disposal, see chapter 13.

Environmental precautions : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
The product should not be allowed to enter drains, water courses or the soil.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Treat recovered material as described in the section "Disposal considerations".

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SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Store in cool area. Product may separate if frozen. If this occurs, warm to room temperature and stir before use.
- Conditions for safe storage : Keep only in the original container.
- Materials to avoid : Avoid storage near incompatible agents (see section 10).
Do not store or transport together with foodstuffs

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values

2-(2-Butoxyethoxy)ethanol
CAS number : 112-34-5

Regulatory list	Substance name as published on list	Revision	Type of value	Values	Remarks
US. Threshold Limit Values (TLV) for Chemical Substances in the Work Environment Adopted Values	Diethylene glycol monobutyl ether	2013-03-01	8-hour, time-weighted average Inhalable fraction and vapor	10 ppm	

Propan-2-ol
CAS number : 67-63-0

Regulatory list	Substance name as published on list	Revision	Type of value	Values	Remarks
US. Threshold Limit Values (TLV) for Chemical Substances in the Work Environment Adopted Values	2-Propanol	2013-03-01	8-hour, time-weighted average	200 ppm	
US. Threshold Limit Values (TLV) for Chemical Substances in the Work Environment Adopted Values	2-Propanol	2013-03-01	Short-term exposure limit	400 ppm	
US. NIOSH Recommended Exposure Limits	Isopropyl alcohol	2005-09-01	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	980 mg/m ³ 400 ppm	

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US. NIOSH Recommended Exposure Limits	Isopropyl alcohol	2005-09-01	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	1,225 mg/m ³ 500 ppm	
US. Permissible Exposure Limits (PEL) Table Z-1 Limits for Air Contaminants	isopropyl alcohol	1997-08-04	8-hour time weighted average	980 mg/m ³ 400 ppm	
US. Table Z-1-A Limits for Air Contaminants (1989 vacated values)	Isopropyl alcohol	1989-01-19	8-hour time weighted average	980 mg/m ³ 400 ppm	
US. Table Z-1-A Limits for Air Contaminants (1989 vacated values)	Isopropyl alcohol	1989-01-19	Short-term exposure limit	1,225 mg/m ³ 500 ppm	

Personal protective equipment

Respiratory protection : NIOSH approved respirator - chemical cartridge respirator with appropriate cartridge, if required.

Hand protection

Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Observe the usual precautions for handling chemicals.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures : Wash hands before breaks and at the end of workday.
Use protective skin cream before handling the product.
Take off immediately all contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product.
Observe the usual precautions for handling chemicals.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : Clear, colorless to light yellow

Odour : alcohol-like

Odour Threshold : not determined

pH : 7.0 - 8.0, Concentration: 50 g/l

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Freezing point	: not determined
Boiling point	: > 212 °F
Flash point	: > 100 °C Method: closed cup
Evaporation rate	: not determined
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: not available
Lower explosion limit	: not available
Vapour pressure	: not available
Relative vapour density	: not determined
Relative density	: Not applicable
Density	: not available
Solubility(ies) Water solubility	: completely soluble
Partition coefficient: n- octanol/water	: This property is not applicable for mixtures.
Auto-ignition temperature	: not available
Decomposition temperature	: not available
Viscosity Viscosity, dynamic	: not available
Viscosity, kinematic	: not available
Explosive properties	: Not explosive Method: Expert judgement
Oxidizing properties	: not oxidizing Method: Expert judgement
Impact sensitivity	: not determined
Surface tension	: not available
Molecular weight	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

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

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Chemical stability : Stable

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Stable

Conditions to avoid : Strong oxidizing agents

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact
Ingestion

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 1,823 mg/kg
Method: Calculation method

Acute inhalation toxicity : Remarks: not available

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

Components:

112-34-5:

Acute oral toxicity : LD50 (Mouse): 2,410 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 2,764 mg/kg
Method: OECD Test Guideline 402

7647-14-5:

Acute oral toxicity : LD50 (Rat): 3,550 mg/kg
Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : LC50 (Rat): > 42 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg
Remarks: Information taken from reference works and the literature.

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67-63-0:

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 10.000 mg/l
Exposure time: 6 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Skin corrosion/irritation

Product:

Remarks: not available

Components:

112-34-5:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Mild to moderate skin irritation effect – does not require labeling

7647-14-5:

Species: Rabbit
Result: No skin irritation
Remarks: Information taken from reference works and the literature.

67-63-0:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Product:

Remarks: not available

Components:

112-34-5:

Species: Rabbit
Result: Eye irritation
Method: OECD Test Guideline 405

7647-14-5:

Species: Rabbit
Result: Mild eye irritant
Method: OECD Test Guideline 405

67-63-0:

Species: Rabbit
Result: irritating
Method: OECD Test Guideline 405

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Respiratory or skin sensitisation

Product:

Remarks: not available

Components:

112-34-5:

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

7647-14-5:

Species: Mouse
Result: Does not cause skin sensitisation.
Remarks: Information taken from reference works and the literature.

67-63-0:

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

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: not available

Components:

112-34-5:

Genotoxicity in vitro : Test Type: In vitro gene mutation study in mammalian cells
Metabolic activation: with and without
Method: OECD Test Guideline 476
Result: negative

: Test Type: Bacterial reverse mutation assay
Metabolic activation: with and without
Method: OECD Test Guideline 471
Result: negative
Remarks: Read-across (Analogy)

: Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: Chromosome Aberration Test
Species: Mouse (male and female)
Strain: CD1
Application Route: oral (gavage)
Method: OECD Test Guideline 475
Remarks: negative

7647-14-5:

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NTP Not listed

Reproductive toxicity

Product:

Effects on fertility : Remarks: not available

Effects on foetal development : Remarks: not available

Components:

112-34-5:

Effects on fertility : Test Type: Two-generation study
Species: Mouse
NOAEL: 720 mg/kg,
F1: 720 mg/kg,
F2: 720 mg/kg,
Remarks: Read-across (Analogy)

Effects on foetal development : Species: Rat
Application Route: oral (feed)
633 mg/kg
663 mg/kg
Method: OECD Test Guideline 414
Species: Rabbit
Application Route: Dermal
1,000 mg/kg
1,000 mg/kg
Method: OECD Test Guideline 414

7647-14-5:

Effects on foetal development : Species: Mouse
< 1,900 mg/kg
2,500 mg/kg
Remarks: Information taken from reference works and the literature.

67-63-0:

Effects on fertility : Test Type: One generation study
Species: Rat
Sex: male and female
NOAEL: 853 mg/kg,
Method: OECD Test Guideline 415

Effects on foetal development : Species: Rat
Application Route: oral (gavage)
400 mg/kg
400 mg/kg
Method: OECD Test Guideline 414

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STOT - single exposure

Product:

Remarks: not available

Components:

67-63-0:

Exposure routes: Inhalation

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Product:

Remarks: not available

Repeated dose toxicity

Product:

Remarks: not available

Components:

112-34-5:

Species: Rat

NOAEL: 250 mg/kg

Application Route: Oral

Method: OECD Test Guideline 408

Species: Rat

NOAEL: 14 mg/kg

Application Route: Inhalation

Method: OECD Test Guideline 413

Species: Rat

NOAEL: 200 - 2,000 mg/kg

Application Route: Dermal

Method: OECD Test Guideline 411

7647-14-5:

Species: Rat

LOAEL: 2,533 mg/kg

Application Route: Oral

Method: OECD Test Guideline 453

Remarks: Information taken from reference works and the literature.

67-63-0:

Species: Rat

NOAEL: 5,000 mg/kg

Application Route: Inhalation

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Aspiration toxicity

Product:

No data available

Symptoms and effects

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: not available

Toxicity to daphnia and other aquatic invertebrates : Remarks: not available

Toxicity to algae : Remarks: not available

Toxicity to fish (Chronic toxicity) : Remarks: not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not available

Toxicity to bacteria : Remarks: not available

Components:

112-34-5:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,300 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): > 100 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 1,101 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 369 mg/l
Exposure time: 30 d
Remarks: The value is given based on a SAR/AAR approach

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- using OECD Toolbox, DEREK, VEGA QSAR models (Cesar models), etc.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 112 mg/l
Exposure time: 14 d
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (Cesar models), etc.
- Toxicity to bacteria : EC10 (activated sludge): > 1,995 mg/l
Exposure time: 0.5 h
Method: OECD Test Guideline 209
- 7647-14-5:**
- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 5,840 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,900 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Nitzschia sp.): 2,430 mg/l
Exposure time: 120 h
Method: OECD Test Guideline 201
GLP: no
- EC50 (Lemna minor (common duckweed)): 6,870 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 221
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 252 mg/l
Exposure time: 33 d
Analytical monitoring: yes
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia pulex (Water flea)): 314 mg/l
Exposure time: 21 d
Analytical monitoring: yes
Method: OECD Test Guideline 211
- Toxicity to bacteria : NOEC (activated sludge): 5,000 mg/l
GLP:
Remarks: Information taken from reference works and the literature.
- Toxicity to soil dwelling organisms : EC50 (Eisenia fetida (earthworms)): 3,296 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 222
- NOEC (Eisenia fetida (earthworms)): 3,507 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 222
- Plant toxicity : EC50 (Lepidium sativum (cress)): 500.8 mg/l

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Exposure time: 7 d
Method: OECD Test Guideline 208

NOEC (Poa pratensis): 243 mg/l
Exposure time: 7 d
Method: OECD Test Guideline 208

67-63-0:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to bacteria : Toxic limit concentration (Pseudomonas putida): 1,050 mg/l
Exposure time: 16 h
Method: DIN 38412 T.8

Persistence and degradability

Product:

Biodegradability : Remarks: not available

Physico-chemical removability : Remarks: not available

Components:

112-34-5:

Biodegradability : Chemical oxygen demand
Result: Readily biodegradable.
Exposure time: 28 d
Method: OECD Test Guideline 301C

Photodegradation : Test Type: air
Remarks: Information taken from reference works and the literature.

67-63-0:

Biodegradability : BOD5/CODX100
Result: Readily biodegradable.
Exposure time: 5 d
Method: 92/69/EC (L383) C.5 * Degradability - biochemical oxygen demand

Biochemical Oxygen Demand (BOD) : 1.72 mg/g
Method: Regulation (EC) No. 440/2008, Annex, C.5 (BOD)

Chemical Oxygen Demand (COD) : 2.23 mg/g
Method: Regulation (EC) No. 440/2008, Annex, C.6 (COD)

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No information is available on the mixture "as is". If

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relevant information is available on the substances listed in Chapter 3, it is reported here.

Components:

112-34-5:

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not expected

Partition coefficient: n-octanol/water

: log Pow: 1 (20 °C)
Method: OECD Test Guideline 117

67-63-0:

Partition coefficient: n-octanol/water

: log Pow: 0.05 (25 °C)
Remarks: Information taken from reference works and the literature.

Mobility in soil

Product:

Distribution among environmental compartments

: Remarks: No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Components:

112-34-5:

Distribution among environmental compartments

: Remarks: Not expected to adsorb on soil.

Other adverse effects

Product:

Results of PBT and vPvB assessment

: Remarks: No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Additional ecological information

: Product does not contain any organic bound Halogens which could lead to AOX-values.

Components:

112-34-5:

Results of PBT and vPvB assessment

: The substance is not identified as a PBT or as a vPvB substance.

Components:

7647-14-5:

Results of PBT and vPvB assessment

: The substance is not identified as a PBT or as a vPvB substance.

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Components:

67-63-0:

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : Yes -- If it becomes a waste as sold.
Waste Code : D001
Waste from residues : This product may yield waste subject to the RCRA land disposal restrictions found at 40 CFR 268. These wastes must be treated according to the treatment standards at 40 CFR 268 subpart D before land disposal.
Contaminated packaging : Corroded or contaminated packaging should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT not restricted
IATA not restricted
IMDG not restricted

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard
SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 : Listed
2-(2-Butoxyethoxy)ethanol 112-34-5 9.0 %
Propan-2-ol 67-63-0 3.0 %

Clean Air Act

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

Clean Water Act

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

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

TSCA : All relevant components are listed in the TSCA Inventory as Active.

Volatile organic compounds VOC:

Remarks: not available

SECTION 16. OTHER INFORMATION

Further information

Keep container closed.
Avoid contact with skin and eyes.
This product is not registered with the FDA.
FDA: Permitted for Use per Section:
NONE
Revision Date : 09/08/2020

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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