

# SAFETY DATA SHEET

Product Name : Vibra L-300

Date Issued : September 20, 2019

## SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Vibra L-300

Formula : Multi-component mixture

Chemical Synonym / C# : c1116

Chemical Family: Alkaline detergent

Supplier : Vibra Finish Limited 5329 Maingate Dr. Mississauga, ONT. L4W1G6

Information Telephone : (905)625-9955

Emergency Telephone : (607)529-3218

## SECTION 2 : HAZARD IDENTIFICATION

Form : liquid Color : light amber

**Emergency Overview :** Solutions and powders are severe eye irritants, and prolonged or repeated contact may cause skin irritation. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract. Read the entire SDS for a more thorough evaluation of the hazards.

**OSHA Hazard Communication Standard :** This product has been evaluated and classified as defined by OSHA Hazard Communication Standard, 29CFR 1910.1200.

### **GHS Classification :**

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2) Carcinogenicity (Category 2)

Hazardous to the aquatic environment, acute hazard (Category 2) Hazardous to the aquatic environment, long-term hazard (Category 3)

**Signal Word :** Danger



**GHS Hazard Pictograms :**

Exclamation Mark,



Health Hazard

### **Hazard Statements :**

H315 Causes skin irritation

H319 Causes serious eye irritation H351 Suspected of causing cancer

H411 Toxic to aquatic life with long lasting effects

### **Precautionary Statements :**

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood. P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P353 + P363 IF ON SKIN: Rinse skin with water/shower. Wash contaminated clothing before reuse.

P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P301 + P330 + P312 IF SWALLOWED: Rinse mouth. call a POISON CENTER or doctor/physician IF you feel unwell.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

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## Precautionary Statements, *continued* :

P401 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Other hazards which do not result in classification :

None known. See Section 11 for Potential Health Hazards

## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Diethanolamine	111-42-2	1 - 10
Sodium Tetraborate Decahydrate	1303-96-4	1 - 5
Sodium Tripolyphosphate	7758-29-4	1 - 5

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

## SECTION 4 : FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Skin Contact:** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

**Notes to physician :** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5 : FIRE FIGHTING MEASURES

**Extinguishing Media:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Procedures:** In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Unusual Fire and Explosion Hazards:** During fire, gases hazardous to health may be formed. No unusual fire or explosion hazards noted.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Personal precautions :** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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**Environmental precautions :** Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

**Steps to be taken in case material is released or spilled:**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## SECTION 7 : HANDLING AND STORAGE

**Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Storage Requirements:** Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredient	ACGIH TLV (mg/m3) TWA	ACGIH TLV (mg/m3) STEL
Diethanolamine	15	-
Sodium Tetraborate Decahydrate	5	-
Sodium Tripolyphosphate	-	-

**Engineering measures :**

**Ventilation / Local Exhaust / Mechanical Recommendations:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Personal protective equipment :**

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Skin Protection:** Wear appropriate chemical resistant clothing.

**Eye Protection:** Wear safety glasses with side shields (or goggles) and a face shield.

**Other Protective Equipment:** Wear appropriate chemical resistant clothing if splashing evident. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Appearance / Odor:** Clear light amber liquid, odor nil.

**Water Solubility:** Complete

**pH (100%):** 9 - 10

**Specific Gravity:** 1.09

**Boiling Point (°F):** 212+

**Evaporation Rate(water=1):** N/A

**% Volatile:** N/A

**Vapor Density(air=1):** N/A

**Vapor Pressure(mmHg):** N/A

**Flash Point :** None

**Flash Point Method Used:** N/A

**Flammable Limits: LEL = N/A UEL = N/A**

## SECTION 10 : STABILITY AND REACTIVITY

**Hazardous Decomposition Products:** No hazardous decomposition products are known.

**Chemical Stability:** Material is stable under normal conditions. The product is stable and non-reactive under normal conditions of use, storage and transport.

**Conditions to Avoid:** Avoid temperatures exceeding the flash point. Contact with incompatible materials. No dangerous reaction known under conditions of normal use.

**Incompatibility with other Substances:** Strong acids.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### **Potential Health Hazards (as mild alkaline or detergent blend) :**

**Inhalation:** Inhalation of mists or dusts may cause irritation to respiratory tract. Symptoms from excessive inhalation or of concentrated product may include gasping or coughing and difficulty breathing. Excessive contact may cause damage to the nasal septum.

**Skin Contact:** May cause mild irritation. Concentrated or prolonged contact may cause irritation with redness and blistering.

**Eye Contact:** May cause mild irritation. Concentrated or prolonged contact may cause conjunctival edema and corneal destruction.

**Ingestion:** Swallowing may produce gastrointestinal upset. Symptoms from ingestion of large doses may include severe abdominal pain, vomiting, and diarrhea.

### **Toxicological Data (for diethanolamine):**

**Acute toxicity** Not available.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity :** Diethanolamine (CAS 111-42-2) 2B  
Possibly carcinogenic to humans.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure :** Not applicable.

**Specific target organ toxicity - repeated exposure :** Not applicable.

**Aspiration hazard** Not applicable.

**Chronic effects** Prolonged exposure may cause chronic effects.

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**Potential Health Hazards (as Sodium Tetraborate Decahydrate) :** Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because borax decahydrate is poorly absorbed through intact skin.

**Inhalation:** Occasional mild irritation effects to nose and throat may occur from inhalation of borax decahydrate dusts at levels higher than 10 mg/m<sup>3</sup>.

**Eye contact:** Borax decahydrate is a serious eye irritant.

**Skin contact:** Borax decahydrate does not cause irritation to intact skin.

**Ingestion:** Products containing borax decahydrate are not intended for ingestion. Borax decahydrate has low acute toxicity. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

**Reproductive/Developmental:** Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction. . A recent epidemiological study and a peer reviewing report of the past epidemiological studies conducted in China didn't show any negative effect of boron on human fertility (5, 6).

5. Scialli AR, Bonde JP, Brüske-Hohlfeld I, Culver D, Li Y, Sullivan FM; ELSEVIER 2009

6. Robbins WA, Xun L, Jia J, Kennedy N, Elashoff DA, Ping L. ;ELSEVIER 2009;(Reproductive Toxicology)

**Potential ecological effects:** Large amounts of borax decahydrate can be harmful to plants and other species. Therefore releases to the environment should be minimized.

**Signs and symptoms of exposure:** Symptoms of accidental over-exposure to borax decahydrate have been associated with ingestion or absorption through large areas of damaged skin. These may include nausea, vomiting, and diarrhea, with delayed effects of skin redness and peeling (see section 11).

## Toxicological Data (for sodium tetraborate decahydrate):

**Acute toxicity** Low acute oral toxicity; LD<sub>50</sub> in rats is 6,000 mg/kg of body weight.

**Skin corrosion / irritation** Low acute dermal toxicity; LD<sub>50</sub> in rabbits is greater than 2,000 mg/kg of body weight. Borax decahydrate is poorly absorbed through intact skin. Non-irritant.

**Serious eye damage/ irritation** Borax decahydrate is a serious eye irritant.

**Respiratory or skin sensitization:** Borax is not a skin sensitizer.

**Reproductive toxicity** Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes (1). Studies with chemically related boric acid in rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those which humans would normally be exposed to (2, 3, 4). Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dust and sodium borate dust. A recent epidemiology study under the conditions of normal occupational exposure to borate dusts indicated no effect on fertility.

1. Weir R J, Fisher R S, Toxicol. Appl. Pharmacol., (1972), 23, 351-364

2. National Toxicology Program (NTP) – Technical Report Series No. TR324, NIH Publication No. 88-2580 (1987), PB88 213475/XAB

3. Fail *et al.*, Fund. Appl. Toxicol. (1991) 17, 225-239

4. Heindel *et al.*, Fund. Appl. Toxicol. (1992) 18, 266-277

**STOT-single exposure** N.A.

**STOT-repeated exposure** N.A.

**Aspiration hazard** Low acute inhalation toxicity; LC<sub>50</sub> in rats is greater than 2.0 mg/l (or g/m<sup>3</sup>).

## Toxicological Data ( as Sodium Tripolyphosphate ) :

Acute Dermal LD50 : Not available

Oral LD50 (rat) = 4100 mg/kg

Inhalation LC50 : Not available

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## SECTION 12 : ECOLOGICAL INFORMATION

**Ecotoxicological Information (for the blended product):** No data found for this product.

**Ecotoxicological Information (for diethanolamine):**

**Movement & Partitioning :** Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3). Potential for mobility in soil is very high (Koc between 0 and 50).

**Persistence and Degradation :** Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%). Material is ultimately biodegradable. Reaches more than 70% mineralization in OECD test for inherent biodegradability. Material is readily biodegradable. Passes OECD test (s) for ready biodegradability.

**Ecotoxicity :** Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100 mg/L in most sensitive species).

**Ecotoxicological Information (for sodium tetraborate decahydrate):**

**Phytotoxicity:** Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimise the amount of borate product released to the environment.

**Algal toxicity**

Green algae, *Pseudokirchneriella subcapitata* (Hansveit and Oldersma, 2000)  
72-hr EC50 –biomass = 40 mg B/L, or 229 mg boric acid/L.

**Invertebrate toxicity**

Daphnia, Daphnids, *Daphnia magna* (Gersich, 1984a)  
48-hr LC50 = 133 mg B/L or 760 mg boric acid/L or 619 mg disodium tetraborate , anhydrous/L

**Fish toxicity**

Fish, Fathead minnow, *Pimephales promelas* (Soucek et al., 2010)  
96-hr LC50 = 79.7 mg B/L or 456 mg boric acid/L or 370 mg disodium tetraborate, anhydrous

**Persistence and degradability:** Boron is naturally occurring and ubiquitous in the environment. Borax is a naturally occurring borate.

**Bio-accumulative potential:** Not significantly bio-accumulative.

**Mobility in soil:** The product is soluble in water and is leachable through normal soil.

**Results of PBT and vPvB assessment** No data available

**Other adverse effects** No data available

**Ecological Information (as Sodium Tripolyphosphate) :** No data.

## SECTION 13 : DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Recycle, recovery and reuse of materials, where permitted, is encouraged as an alternate to disposal as a waste. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste. RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: *Ignitability, Corrosivity, Reactivity, and Toxicity*. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed.

**Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded?** No

**If yes, the RCRA ID number is :** N/A

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## SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (866)302-6855\*

\*Please refer to c# referenced in section 1 of this sds.

UN Number / DOT Proper Shipping Name / DOT Hazard Class /Packing Group / DOT Label & other information: NOT REGULATED BY DOT (mildly alkaline cleaning liquid NOIBN)

## SECTION 15 : REGULATORY INFORMATION

### US FEDERAL REGULATIONS :

**TSCA (Toxic Substances Control Act) Status :** The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a) :**

<u>Component</u>	<u>RQ (lbs)</u>
Diethanolamine	100

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800) 424-8802 and to your Local Emergency Planning Committee.

**SARA 302 Components - 40 CFR 355 Appendix A**

<u>Section 302 Component(s)</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>
Diethanolamine	none	

**SARA 311/312 Classification - 40 CFR 370.2 :**

(as Diethanolamine) : Immediate Hazard, Delayed Hazard

(as sodium tetraborate decahydrate): Chronic Health Hazard

**SARA 313 Components - 40 CFR 372.65:**

<u>Section 313 Component(s)</u>	<u>CAS #</u>	<u>%</u>
Diethanolamine	111-42-2	1 - 10

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## INTERNATIONAL REGULATIONS :

**Diethanolamine** (CAS# 111-42-2) is listed on the following inventories : Australian Inventory of Chemical Substances (AICS), Canada Domestic Substances List (DSL), Inventory of Existing Chemical Substances in China (IECSC), European Inventory of Existing Commercial Chemical Substances (EINECS), Korea Existing Chemicals List (ECL), New Zealand Inventory, Philippine Inventory of Chemicals and Chemical Substances (PICCS)

**Sodium tetraborate decahydrate** (CAS#1303-96-4) is listed on the following inventories or in compliance with the following inventories : Canada (DSL), ECN. South Korea, Japan (MITI). Clean Air Act (Montreal Protocol): Borax decahydrate was not manufactured with and does not contain any Class I or Class II ozone depleting substances.

EU Reach Regulation: Disodium tetraborates are listed in the Candidate List of Substances of Very High Concern "SVHC" for eventual inclusion in Annex XIV to REACH Regulation 1907/2006 ("Authorization List") (18.06.2010-ED/30/2010).

Disodium tetraborates are listed in the Annex XVII of REACH Regulation 1907/2006 (EU No. 109/2012) and its use in consumer products above specific concentration limits is restricted. Note that this restriction is only specific to consumer products and do not cover its industrial and/or professional applications. Disodium Tetraborates can be used in consumer products below specific concentration limits (which is C 28.5% for Borax decahydrate).

## STATE REGULATIONS :

**California Safe Drinking Water Act (Prop. 65) Listing :** None listed.

### **Other Regulations / Legislation which apply to this product:**

**Diethanolamine** (CAS# 111-42-2) is listed on the following inventories : New Jersey Community RTK (EHS Survey), Pennsylvania RTK - Hazardous Substances, Massachusetts RTK - Substance List, Rhode Island RTK

**Sodium tetraborate decahydrate** (CAS#1303-96-4) is listed on the following inventories : Massachusetts RTK Substance List, Pennsylvania Right-to-Know Hazardous Substances, New Jersey Right-to-Know

**Sodium Tripolyphosphate** (CAS#7758-29-4) is listed on the following inventories : Massachusetts Substance List, New Jersey Right to Know Hazardous Substance List, Pennsylvania Hazardous Substance List

## SECTION 16 : OTHER INFORMATION

**NFPA Rating :** HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0  
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

**Revision Date :** 6/3/2016

*Information and data compiled to compose this SDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.*