

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 03/05/2019

## 1 Identification

**- Product identifier**

- **Trade name:** Vibra-TITE® Excel Primer
- **Synonyms:** 612 Excel Primer T
- **Part number:** VT612
- **Application of the substance / the mixture** Primer/ Subcoating

**- Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**  
ND Industries, Inc  
1000 North Crooks Road  
Clawson, MI 48017  
USA  
Telephone: +1-248-288-0000  
Email: info@ndindustries.com  
Website: www.ndindustries.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
United States: 1-800-424-9300  
International: +1-703-527-3887

## 2 Hazard(s) identification

**- Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

**- Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**- Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

**- Hazard-determining components of labeling:**

heptane  
n-hexane  
N,N-dimethyl-p-toluidine  
acetone

**- Hazard statements**

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.

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**- Precautionary statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Classification system:****- NFPA ratings (scale 0 - 4)**

3	Health = 2
2	Fire = 3
0	Reactivity = 0

**- HMIS-ratings (scale 0 - 4)**

2	HEALTH	Health = 2
3	FIRE	Fire = 3
0	REACTIVITY	Reactivity = 0

**- Other hazards****- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients****- Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

**- Dangerous components:**

CAS: 142-82-5	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	50 – 59%
CAS: 67-64-1	acetone Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	20 – 29%
CAS: 67-63-0	isopropanol Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	10 – 19%
CAS: 99-97-8	N,N-dimethyl-p-toluidine Acute Tox. 3, H301; Acute Tox. 3, H311; Carc. 2, H351; STOT RE 2, H373; Flam. Liq. 4, H227	1 – 4%
CAS: 110-54-3	n-hexane Flam. Liq. 2, H225; Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	1 – 4%

**4 First-aid measures****- Description of first aid measures****- General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**- After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

**- After skin contact:** Immediately wash with water and soap and rinse thoroughly.**- After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Wear protective clothing.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents  
Dispose of the collected material according to regulations.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
  - **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

CAS: 142-82-5 heptane

PEL	Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 350 mg/m <sup>3</sup> , 85 ppm Ceiling limit value: 1800* mg/m <sup>3</sup> , 440* ppm *15-min

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TLV	Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm
<b>CAS: 67-64-1 acetone</b>	
PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm Long-term value: 594 mg/m <sup>3</sup> , 250 ppm BEI
<b>CAS: 67-63-0 isopropanol</b>	
PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
<b>CAS: 99-97-8 N,N-dimethyl-p-toluidine</b>	
WEEL	Long-term value: 0.5 ppm
<b>CAS: 110-54-3 n-hexane</b>	
PEL	Long-term value: 1800 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 180 mg/m <sup>3</sup> , 50 ppm
TLV	Long-term value: 176 mg/m <sup>3</sup> , 50 ppm Skin; BEI
<b>- Ingredients with biological limit values:</b>	
<b>CAS: 67-64-1 acetone</b>	
BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
<b>CAS: 67-63-0 isopropanol</b>	
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
<b>CAS: 110-54-3 n-hexane</b>	
BEI	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2,5-Hexanedione without hydrolysis

- **Additional information:** The lists that were valid during the creation were used as basis.

### - Exposure controls

#### - Personal protective equipment:

##### - General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

##### - Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

##### - Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

##### - Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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**- Eye protection:**

Tightly sealed goggles

**- Body protection:** Protective work clothing

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance:**

- **Form:** Fluid
- **Color:** Colorless
- **Odor:** Solvent-like
- **Odor threshold:** Not determined.

**- pH-value:** Not determined.**- Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:**  $\geq 55.8 - \leq 56.6$  °C ( $\geq 132.4 - \leq 133.9$  °F)

**- Flash point:** -17 °C (1.4 °F)**- Flammability (solid, gaseous):** Not applicable.**- Ignition temperature:** 215 °C (419 °F)**- Decomposition temperature:** Not determined.**- Auto igniting:** Product is not selfigniting.**- Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.**- Explosion limits:**

- **Lower:** 1.1 Vol %
- **Upper:** 13 Vol %

**- Vapor pressure at 20 °C (68 °F):**  $\leq 233$  hPa ( $\leq 174.8$  mm Hg)**- Density at 20 °C (68 °F):**  $\sim 0.72634$  g/cm<sup>3</sup> ( $\sim 6.06131$  lbs/gal)

- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.

**- Solubility in / Miscibility with****- Water:** Not miscible or difficult to mix.**- Partition coefficient (n-octanol/water):** Not determined.**- Viscosity:**

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

**- Solvent content:**

- **Organic solvents:** 97.0 %
- **VOC content:** 71.95 %  
 $\sim 522.6$  g/l /  $\sim 4.36$  lb/gal

**- Solids content:** 0.0 %**- Other information** No further relevant information available.

## 10 Stability and reactivity

**- Reactivity** No further relevant information available.**- Chemical stability****- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**- Possibility of hazardous reactions** No dangerous reactions known.**- Conditions to avoid** No further relevant information available.**- Incompatible materials:** No further relevant information available.**- Hazardous decomposition products:** No dangerous decomposition products known.

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## 11 Toxicological information

### - Information on toxicological effects

#### - Acute toxicity:

#### - LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

Oral	LD50	3,311 mg/kg
Dermal	LD50	9,934 mg/kg
Inhalative	LC50/4 h	273 mg/l (rat)

#### CAS: 67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

#### CAS: 67-63-0 isopropanol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

#### CAS: 99-97-8 N,N-dimethyl-p-toluidine

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)

#### - Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

#### - Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

#### - Carcinogenic categories

#### - IARC (International Agency for Research on Cancer)

CAS: 67-63-0	isopropanol	3
CAS: 99-97-8	N,N-dimethyl-p-toluidine	2B
CAS: 149-30-4	benzothiazole-2-thiol	2A

#### - NTP (National Toxicology Program)

None of the ingredients is listed.

#### - OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

### - Toxicity

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

### - Behavior in environmental systems:

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

### - Ecotoxicological effects:

- **Remark:** Very toxic for fish

### - Additional ecological information:

#### - General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

### - Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- <b>UN-Number</b>	
- <b>DOT, IMDG, IATA</b>	UN1993
- <b>UN proper shipping name</b>	
- <b>DOT</b>	Flammable liquids, n.o.s. (Heptanes, Acetone)
- <b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (HEPTANES, ACETONE), MARINE POLLUTANT
- <b>IATA</b>	FLAMMABLE LIQUID, N.O.S. (HEPTANES, ACETONE)
- <b>Transport hazard class(es)</b>	
- <b>DOT</b>	
	
- <b>Class</b>	3 Flammable liquids
- <b>Label</b>	3
- <b>IMDG</b>	
 	
- <b>Class</b>	3 Flammable liquids
- <b>Label</b>	3
- <b>IATA</b>	
	
- <b>Class</b>	3 Flammable liquids
- <b>Label</b>	3
- <b>Packing group</b>	
- <b>DOT, IMDG, IATA</b>	II
- <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: heptane
- <b>Marine pollutant:</b>	Yes Symbol (fish and tree)
- <b>Special precautions for user</b>	Warning: Flammable liquids
- <b>Danger code (Kemler):</b>	33
- <b>EMS Number:</b>	F-E,S-E
- <b>Stowage Category</b>	B
- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
- <b>Transport/Additional information:</b>	
- <b>DOT</b>	
- <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
- <b>IMDG</b>	
- <b>Limited quantities (LQ)</b>	1L

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<b>- Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>- UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (HEPTANES, ACETONE), 3, II, ENVIRONMENTALLY HAZARDOUS

## \*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

<b>- Section 355 (extremely hazardous substances):</b>	
None of the ingredients is listed.	

<b>- Section 313 (Specific toxic chemical listings):</b>	
CAS: 67-63-0	isopropanol
CAS: 110-54-3	n-hexane
CAS: 149-30-4	benzothiazole-2-thiol

<b>- TSCA (Toxic Substances Control Act):</b>	
All ingredients are listed.	

<b>- Hazardous Air Pollutants</b>	
CAS: 110-54-3	n-hexane

<b>- Proposition 65</b>	
<b>- Chemicals known to cause cancer:</b>	
CAS: 99-97-8	N,N-dimethyl-p-toluidine
CAS: 149-30-4	benzothiazole-2-thiol

<b>- Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	

<b>- Chemicals known to cause reproductive toxicity for males:</b>	
CAS: 110-54-3	n-hexane

<b>- Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	

<b>- Carcinogenic categories</b>		
<b>- EPA (Environmental Protection Agency)</b>		
CAS: 142-82-5	heptane	D
CAS: 67-64-1	acetone	I
CAS: 110-54-3	n-hexane	II

<b>- TLV (Threshold Limit Value established by ACGIH)</b>		
CAS: 67-64-1	acetone	A4
CAS: 67-63-0	isopropanol	A4

<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs
- **Contact:** Safety, Health and Environmental Affairs
- **Date of preparation / last revision** 03/06/2019 / 19

### - Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEI: Biological Exposure Limit  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 4: Flammable liquids – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

- \* **Data compared to the previous version altered.**

- **Disclaimer**

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