Safety Data Sheet
acc. to OSHA HCS

Printing date 01/23/2024 *Reviewed on 10/23/2023*

1 Identification

- ***Product identifier***
  - ***Trade name:*** Vibra-TITE® Excel CA Accelerator
    - ***Synonyms:*** 621 Excel CA Accelerator
    - ***Part number:*** VT621
    - ***Application of the substance / the mixture*** Accelerator
- ***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

Flammable Liquids 2	H225 Highly flammable liquid and vapor.


GHS08 Health hazard

Carcinogenicity 2	H351 Suspected of causing cancer.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.


GHS07

Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 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
      acetone
      N,N-dimethyl-p-toluidine
    - ***Hazard statements***
      H225 Highly flammable liquid and vapor.
      H315 Causes skin irritation.
      H319 Causes serious eye irritation.
      H351 Suspected of causing cancer.
      H336 May cause drowsiness or dizziness.
      H304 May be fatal if swallowed and enters airways.

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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.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear eye protection / face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
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.
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.

- ***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: 67-64-1	acetone Flammable Liquids 2, H225; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	60 – 69%
CAS: 142-82-5	heptane Flammable Liquids 2, H225; Aspiration Hazard 1, H304; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336	30 – 39%
CAS: 99-97-8	N,N-dimethyl-p-toluidine Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Flammable Liquids 4, H227	≤ 1%

4 First-aid measures

- ***Description of first aid measures***
  - ***After inhalation:***
    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.
  - ***After swallowing:*** If symptoms persist consult 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:***
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - ***For safety reasons unsuitable extinguishing agents:*** Water
- ***Special hazards arising from the substance or mixture*** No further relevant information available.
- ***Advice for firefighters***
  - ***Protective equipment:***
    Wear self-contained respiratory protective device.

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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 section 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:*** No special requirements.
    - ***Information about storage in one common storage facility:*** Not required.
    - ***Further information about storage conditions:*** Keep receptacle tightly sealed.
- ***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 section 7.
- ***Control parameters***

- ***Components with limit values that require monitoring at the workplace:***	
CAS: 67-64-1 acetone	
PEL	Long-term value: 2400 mg/m³, 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI
CAS: 142-82-5 heptane	
PEL	Long-term value: 2000 mg/m³, 500 ppm
REL	Long-term value: 350 mg/m³, 85 ppm Ceiling limit value: 1800* mg/m³, 440* ppm *15-min
TLV	Short-term value: 500 ppm Long-term value: 400 ppm
CAS: 99-97-8 N,N-dimethyl-p-toluidine	
WEEL	Long-term value: 0.5 ppm

- ***Ingredients with biological limit values:***	
CAS: 67-64-1 acetone	
BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

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

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- ***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.
    - ***Body protection:*** Protective work clothing

*
9 Physical and chemical properties

- ***Information on basic physical and chemical properties***	
- ***General Information***	
- ***Appearance:***	
- ***Form:***	Fluid
- ***Color:***	Amber colored
- ***Odor:***	Solvent-like
- ***Odor threshold:***	Not determined.
- ***pH-value:***	Not determined.
- ***Change in condition***	
- ***Melting point/Melting range:***	Undetermined.
- ***Boiling point/Boiling range:***	≥ 55.8 – ≤ 56.6 °C (≥ 132.4 – ≤ 133.9 °F)
- ***Flash point:***	-17 °C (1.4 °F)
- ***Flammability (solid, gaseous):***	Highly flammable.
- ***Auto igniting:***	215 °C (419 °F)
- ***Decomposition temperature:***	Not determined.
- ***Ignition temperature:***	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):***	≤ 233 hPa (≤ 174.8 mm Hg)
- ***Vapor pressure at 50 °C (122 °F):***	≤ 800 hPa (≤ 600 mm Hg)
- ***Density at 20 °C (68 °F):***	~ 0.75262 g/cm³ (~ 6.28061 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.

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- ***Viscosity:***	
- ***Dynamic:***	Not determined.
- ***Kinematic:***	Not determined.
- ***Solvent content:***	
- ***Organic solvents:***	99.6 %
- ***VOC content:***	34.50 % ~ 259.7 g/l / ~ 2.17 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.

11 Toxicological information

- ***Information on toxicological effects***
  - ***Acute toxicity:***
    - ***LD/LC50 values that are relevant for classification:***

ATE (Acute Toxicity Estimate)		
Oral	LD50	26,316 mg/kg
Dermal	LD50	78,947 mg/kg
Inhalative	LC50/4 h	789 mg/l

CAS: 67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

CAS: 99-97-8 N,N-dimethyl-p-toluidine		
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (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:
    Irritant
    - ***Carcinogenic categories***
      - ***IARC (International Agency for Research on Cancer)***

CAS: 99-97-8	N,N-dimethyl-p-toluidine	2B

      - ***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.

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- ***Ecotoxical 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.

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

- ***UN-Number***	
- ***DOT, IMDG, IATA***	UN1993
- ***UN proper shipping name***	
- ***DOT***	Flammable liquids, n.o.s. (Acetone, Heptanes)
- ***IMDG***	FLAMMABLE LIQUID, N.O.S. (ACETONE, HEPTANES), MARINE POLLUTANT
- ***IATA***	FLAMMABLE LIQUID, N.O.S. (ACETONE, HEPTANES)
- ***Transport hazard class(es)***	
- ***DOT***	
- ***Class***	3 Flammable liquids
- ***Label***	3
- ***IMDG***	
- ***Class***	3 Flammable liquids
- ***Label***	3
- ***IATA***	
- ***Class***	3 Flammable liquids
- ***Label***	3
- ***Packing group***	
- ***DOT, IMDG, IATA***	II
- ***Environmental hazards:***	Product contains environmentally hazardous substances: heptane
- ***Marine pollutant:***	Yes Symbol (fish and tree)
- ***Special precautions for user***	Warning: Flammable liquids
- ***Hazard identification number (Kemler code):***	33
- ***EMS Number:***	F-E,S-E

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- ***Stowage Category***	B
- ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code***	Not applicable.
- ***Transport/Additional information:***	
- ***DOT***	
- ***Quantity limitations***	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
- ***Remarks:***	Special marking with the symbol (fish and tree).
- ***IMDG***	
- ***Limited quantities (LQ)***	1L
- ***Excepted quantities (EQ)***	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- ***UN "Model Regulation":***	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, HEPTANES), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- ***Safety, health and environmental regulations/legislation specific for the substance or mixture***
No further relevant information available.

- ***Sara***

- ***Section 355 (extremely hazardous substances):***

None of the ingredients is listed.

- ***Section 313 (Specific toxic chemical listings):***

None of the ingredients is listed.

- ***TSCA (Toxic Substances Control Act):***

All components have the value ACTIVE.

- ***Hazardous Air Pollutants***

None of the ingredients is listed.

- ***Proposition 65***

- ***Chemicals known to cause cancer:***

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

- ***Chemicals known to cause reproductive toxicity for females:***

None of the ingredients is listed.

- ***Chemicals known to cause reproductive toxicity for males:***

None of the ingredients is listed.

- ***Chemicals known to cause developmental toxicity:***

None of the ingredients is listed.

- ***Carcinogenic categories***

- ***EPA (Environmental Protection Agency)***

CAS: 67-64-1	acetone	I
CAS: 142-82-5	heptane	D

- ***TLV (Threshold Limit Value)***

CAS: 67-64-1	acetone	A4

- ***NIOSH-Ca (National Institute for Occupational Safety and Health)***

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 Affaires
- ***Contact:*** Safety, Health and Environmental Affaires

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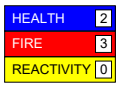
- ***Classification System:***
  - ***HMIS-ratings (scale 0 - 4)***



Health = 2
Fire = 3
Reactivity = 0

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

Health = 2
Fire = 3
Reactivity = 0

- ***Date of preparation / last revision*** 01/23/2024
- ***Abbreviations and acronyms:***

ADR: Accord relatif au transport international 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
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
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
Flammable Liquids 2: Flammable liquids – Category 2
Flammable Liquids 4: Flammable liquids – Category 4
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1

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

- ***Disclaimer***

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