



Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 02/28/2019

1 Identification

- Product identifier

- Trade name: Vibra-TITE® Excel Structural Activator

- Synonyms: 600 Excel Structural Activator
- Part number: VT600
- Application of the substance / the mixture Activator

- 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

GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.



Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.

- Label elements

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



- Signal word Danger
- Hazard-determining components of labeling: tetrahydrofurfuryl methacrylate
- tetrahydro-2-furylmethanol
- Hazard statements
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child.
- H335 May cause respiratory irritation.
- Precautionary statements
- P201 Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood. P202
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264
 - Wash face, hands and any exposed skin thoroughly after handling.
- 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.
- If on skin: Wash with plenty of water. P302+P352

Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 02/28/2019

Trade name: Vibra-TITE® Excel Structural Activator

	()	Contd. of page 1)
P304+P34		
P305+P38	51+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and e Continue rinsing.	easy to do.
P308+P3 ⁻		
P312	Call a poison center/doctor if you feel unwell.	
P321	Specific treatment (see on this label).	
P362+P36 P332+P3	· · · · · · · · · · · · · · · · · · ·	
P332+P3 P337+P3		
P403+P23		
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
- Classification	system: gs (scale 0 - 4)	
	ealth = 2	
	ire = 1 eactivity = 0	
 		
- HMIS-rating	ıs (scale 0 - 4)	
HEALTH 2	Health = 2	
	Fire = 1	
	Reactivity = 0	
 Other hazards 		
	PBT and vPvB assessment	
	t applicable.	
- vPvB: No	ot applicable.	
3 Composition/	information on ingredients	
- Chemical char	acterization: Mixtures	
	<i>I</i> Mixture of the substances listed below with nonhazardous additions.	
	components:	
-	tetrahydrofurfuryl methacrylate	70 – 79%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 34562-31-7		20 - 29%
		- 1

CAS: 34562-31-7	Accelerator	20 – 29%
	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
CAS: 128-37-0	Butylated hydroxytoluene	≤ 1%
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336	
CAS: 97-99-4	tetrahydro-2-furylmethanol	≤ 1%
	Repr. 1B, H360; Acute Tox. 4, H302; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	

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

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.

- CO2, sand, extinguishing powder. Do not use water.
- Use fire fighting measures that suit the environment.

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.

No further relevant information available.

Printing date 03/06/2019

Wear fully protective suit.

Trade name: Vibra-TITE® Excel Structural Activator

(Contd. of page 2)

Reviewed on 02/28/2019

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Wear protective clothing.	
 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: 	
Ensure adequate ventilation.	
Do not flush with water or aqueous cleansing agents	
Dispose of the collected material according to regulations. - <i>Reference to other sections</i>	
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 item 7.	
 Control parameters Components with limit values that require monitoring at the workplace: The following constituents are the only constituents of the product which have a PEL, TLV or other recommendation that this time, the other constituents have no known exposure limits. 	mended exposure limit.
 Control parameters Components with limit values that require monitoring at the workplace: The following constituents are the only constituents of the product which have a PEL, TLV or other recommendation that this time, the other constituents have no known exposure limits. CAS: 128-37-0 Butylated hydroxytoluene 	mended exposure limit.
 Control parameters Components with limit values that require monitoring at the workplace:	mended exposure limit.
 Control parameters Components with limit values that require monitoring at the workplace:	mended exposure limit.
 Control parameters Components with limit values that require monitoring at the workplace:	mended exposure limit.
 Control parameters Components with limit values that require monitoring at the workplace:	mended exposure limit.
 Control parameters Components with limit values that require monitoring at the workplace: The following constituents are the only constituents of the product which have a PEL, TLV or other recommodated the the time, the other constituents have no known exposure limits. CAS: 128-37-0 Butylated hydroxytoluene REL Long-term value: 10 mg/m³ TLV Long-term value: 2* mg/m³	mended exposure limit.
 Control parameters Components with limit values that require monitoring at the workplace:	
 Control parameters Components with limit values that require monitoring at the workplace:	

Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019

Trade name: Vibra-TITE® Excel Structural Activator

(Contd. of page 3)

Reviewed on 02/28/2019

- 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. - *Eye protection:*

Safety glasses

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:	Fluid Light brown	
- Odor:	Characteristic	
- Odor threshold:	Not determined.	
- pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 59 – ≤ 62 °C (≥ 138.2 – ≤ 143.6 °F)	
- Flash point:	100 °C (212 °F)	
- Flammability (solid, gaseous):	Not applicable.	
- Decomposition temperature:	Not determined.	
- Auto igniting:	Product is not selfigniting.	
- Danger of explosion:	Product does not present an explosion hazard.	
- Explosion limits: - Lower: - Upper:	Not determined. Not determined.	
- Vapor pressure:	Not determined.	
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	 1.02343 g/cm³ (~ 8.54052 lbs/gal) Not determined. Not determined. Not determined. 	
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/w	/ater): Not determined.	
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 	43 mPas Not determined.	
 Solvent content: Organic solvents: VOC content: 	0.3 % 0.31 % ~ 3.2 g/l / ~ 0.03 lb/gal	
- Solids content: - Other information	1.0 % No further relevant information available.	

- Reactivity No further relevant information available.

- Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019

Trade name: Vibra-TITE® Excel Structural Activator

(Contd. of page 4)

Reviewed on 02/28/2019

- 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:

I D/L CEO values that are relevant for elegations

	- LD/LC50 values that are relevant for classification:			
ATE (Acute Toxicity Estimate)			r Estimate)	
	Oral	LD50	2,216 mg/kg	
	Dermal	LD50	5,000 mg/kg	
	Inhalative	LC50/4 h	2,308 mg/l (rat)	
[CAS: 3456	CAS: 34562-31-7 Accelerator		
	Oral	LD50	500 mg/kg (ATE)	
	Dermal	LD50	1,100 mg/kg (ATE)	
	CAS: 128-37-0 Butylated hydroxytoluene			
	Oral	LD50	890 mg/kg (rat)	
	CAS: 97-99-4 tetrahydro-2-furylmethanol			
	Oral	LD50	1,600 mg/kg (rat)	
	CAS: 1338-02-9 Metal Salt Complex			
	Oral	LD50	7,500 mg/kg (rat)	

Drimory irritant offacts			
Inhalative	LC50/4 h	3 mg/l (rat)	
Dermal	LD50	> 5,000 mg/kg (rabbit)	
Oral	LD50	7,500 mg/kg (rat)	

- 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: 128-37-0 Butylated hydroxytoluene

- 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.
- 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.

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.

3

(Contd. of page 5)

Safety Data Sheet acc. to OSHA HCS

Trade name: Vibra-TITE® Excel Structural Activator

Reviewed on 02/28/2019

- Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

Transport information		
- UN-Number - DOT, ADN, IMDG, IATA	not regulated	
 UN proper shipping name DOT, ADN, IMDG, IATA 	not regulated	
- Transport hazard class(es)		
- DOT, ADN, IMDG, IATA - Class	not regulated	
- Packing group - DOT, IMDG, IATA	not regulated	
- Environmental hazards: - Marine pollutant:	No	
- Special precautions for user	Not applicable.	
 Transport in bulk according to Annex II of I and the IBC Code 	MARPOL73/78 Not applicable.	
- UN "Model Regulation":	not regulated	

15 Regulatory information

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

 Section 355 (extremely hazardous substances): 	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
CAS: 1338-02-9 Metal Salt Complex	
- TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
- Hazardous Air Pollutants	
None of the ingredients is listed.	
- Proposition 65	
 Chemicals known to cause cancer: 	
None of the ingredients is listed.	
 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)	
None of the ingredients is listed.	
 TLV (Threshold Limit Value established by ACGIH) 	
CAS: 128-37-0 Butylated hydroxytoluene	A
 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

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019

Reviewed on 02/28/2019

Trade name: Vibra-TITE® Excel Structural Activator

- Contact: Safety, Health and Environmental Affaires

- Date of preparation / last revision 03/06/2019 / 15 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 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
- Flam. Liq. 4: Flammable liquids Category 4 Acute Tox. 4: Acute toxicity Category 4 Skin Irrit. 2: Skin corrosion/irritation Category 2

- Eye Irrit. 2A: Serious eye damage/eye irritation Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation Category 2B Repr. 1B: Reproductive toxicity Category 1B STOT SE 3: Specific target organ toxicity (single exposure) Category 3 - * Data compared to the previous version altered.

Disclaimer

The information set forth is based on information that ND Industries, Incorporated believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and ND Industries Inc. assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

®ND and ND Industries, Inc. are registered trademarks of ND Industries Incorporated, ®Vibra-TITE is a registered trademark of ND Industries, Inc.