



Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/29/2024

Reviewed on 01/29/2024

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1 Identification

- Product identifier

- Trade name: Vibra-TITE® Methacrylate Adhesives
 - Synonyms: PB500 Low Surface Energy Bonding Resin Part A
 - Part number: VTPB500A
 - Application of the substance / the mixture Adhesives

- 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 identification

Classification of the substance or mixture GHS08 Health hazard H334 May cause allergy or asthma symptoms or breathing difficulties if Respiratory Sensitizer - Category 1 inhaled. Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child. Specific Target Organ Toxicity - Repeated Exposure - Category 1 H372 Causes damage to the respiratory system through prolonged or repeated exposure. GHS05 Corrosion Serious Eye Damage - Category 1 H318 Causes serious eye damage. GHS07 Skin Irritation - Category 2 H315 Causes skin irritation. Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure - Category 3 H335 May cause respiratory irritation. Flammable Liquids - Category 4 H227 Combustible liquid.

- 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:

maleic anhydride tetrahydrofurfuryl methacrylate 2-ethylhexyl methacrylate

tetrahydro-2-furylmethanol Monofunctional acid ester

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- Hazard staten	
H227 Combustib	
H315 Causes sk	
	rious eye damage.
	allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
	ge fertility or the unborn child.
	respiratory irritation.
	mage to the respiratory system through prolonged or repeated exposure.
 Precautionary 	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P33	88 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention 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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional inform	
1 % of the mixture of	onsists of an ingredient or ingredients of unknown acute toxicity

4 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.

3 Composition/Information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous components:

CAS: 2455-24-5	tetrahydrofurfuryl methacrylate	30 - 60% w/w	
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	-	
CAS: 20882-04-6 Butane Skin In	Butanedioic acid	5 – 10% w/w	
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319		
CAS: 688-84-6	2-ethylhexyl methacrylate	3 – 7% w/w	
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335; Flammable Liquids - Category 4, H227	-	
CAS: 69912-79-4	Desiccant	1 – 5% w/w	
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	-	
CAS: 108-31-6	maleic anhydride	1 – 5% w/w	
	Respiratory Sensitizer - Category 1, H334; Specific Target Organ Toxicity - Repeated Exposure - Category 1, H372; Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318; Acute Toxicity (Oral) - Category 4, H302; Skin Sensitizer - Category 1, H317	-	
	Monofunctional acid ester	0.1 – 1% w/w	
	Acute Toxicity (Dermal) – Category 3, H311; Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318; Skin Sensitizer - Category 1, H317		
CAS: 97-99-4	tetrahydro-2-furylmethanol	0.1 – 1% w/w	
	Reproductive Toxicity - Category 1B, H360; Acute Toxicity (Oral) - Category 4, H302; Eye Irritation - Category 2A, H319; Flammable Liquids - Category 4, H227		

4 First-aid measures

- Description of first aid measures

- After inhalation:

Supply fresh air and to be sure call for a doctor.

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

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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, sand, extinguishing powder. Do not use water.
- 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. Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.

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: No special measures required.

- 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

CAS: 108-31-6 maleic anhydride

	-
EL (Canada)	TWA: 0.1 ppm
	S(D), S(R)
EV (Canada)	TWA: 0.1 ppm
PEL (USA)	TWA: 1 mg/m ³ , 0.25 ppm
REL (USA)	TWA: 1 mg/m ³ , 0.25 ppm
TLV (USA)	TWA: 0.01* mg/m ³
	DSEN, RSEN;*inh. fraction + vapor, A4

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CAS: 97-99-4 tetrahydro-2-furylmethanol	
WEEL (USA) TWA: 0.5 ppm	
	that were valid during the creation were used as basis.
Exposure controls - Personal protective equipment:	
- General protective equipment.	
Keep away from foodstuffs, beverage	
Immediately remove all soiled and co	ntaminated clothing.
Wash hands before breaks and at the Avoid contact with the eyes and skin.	end of work.
- Breathing equipment:	
In case of brief exposure or low pollut	ion 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	
Selection of the glove material on con	eable and resistant to the product/ the substance/ the preparation. sideration of the penetration times, rates of diffusion and the degradation
- Material of gloves	
manufacturer to manufacturer. As not be calculated in advance and	es does not only depend on the material, but also on further marks of quality and varies from the product is a preparation of several substances, the resistance of the glove material can has therefore to be checked prior to the application.
Nitrile rubber, NBR - Penetration time of glove m	aterial
	to be found out by the manufacturer of the protective gloves and has to be observed.
- Body protection: Protective work of	clothing
Physical and chemical properties	
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	amical proportion
Information on basic physical and che	emical properties
Information on basic physical and che - General Information	emical properties
Information on basic physical and che	emical properties
Information on basic physical and che - General Information - Appearance: - Form: - Color:	
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor:	Pasty According to product specification Characteristic
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold:	Pasty According to product specification Characteristic Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value:	Pasty According to product specification Characteristic
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor: - Odor threshold: - pH-value: - Change in condition	Pasty According to product specification Characteristic Not determined. Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \ ^{\circ}C$
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \ ^{\circ}C$ $\geq 92 \ ^{\circ}C$
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous):	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \degree C$ $\geq 92 \degree C$ Not applicable.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Melting range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \ ^{\circ}C$ $\geq 92 \ ^{\circ}C$ Not applicable. Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \degree C$ $\geq 92 \degree C$ Not applicable. Not determined. Not determined. Product is not selfigniting.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Danger of explosion:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \ ^{\circ}C$ $\geq 92 \ ^{\circ}C$ Not applicable. Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Danger of explosion: - Explosion limits:	Pasty According to product specification Characteristic Not determined.Not determined.Undetermined. $\geq 59 - \leq 62 \degree C$ $\geq 92 \degree C$ Not applicable.Not determined.Product is not selfigniting.Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Danger of explosion: - Explosion limits: - Lower:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \degree C$ $\geq 92 \degree C$ Not applicable. Not determined. Not determined. Product is not selfigniting.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Melting range: - Flash point: - Flash point: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Danger of explosion: - Explosion limits: - Lower: - Upper:	Pasty According to product specification Characteristic Not determined. Not determined. ≥ 59 – ≤ 62 °C ≥ 92 °C Not applicable. Not determined. Product is not selfigniting. Not determined. Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Danger of explosion: - Explosion limits: - Lower: - Upper: - Vapor pressure:	Pasty According to product specification Characteristic Not determined. Not determined. ≥ 59 – ≤ 62 °C ≥ 92 °C Not applicable. Not determined. Product is not selfigniting. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Melting range: - Flash point: - Flash point: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Danger of explosion: - Explosion limits: - Lower: - Upper:	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \degree C$ $\geq 92 \degree C$ Not applicable. Not determined. Product is not selfigniting. Not determined. Not determined. Not determined. Not determined. Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Ignition temperature: - Danger of explosion: - Explosion limits: - Lower: - Upper: - Vapor pressure: - Density at 20 °C: - Relative density - Vapor density	Pasty According to product specification Characteristic Not determined. Not determined. ≥ 59 – ≤ 62 °C ≥ 92 °C Not applicable. Not determined. Product is not selfigniting. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
Information on basic physical and che - General Information - Appearance: - Form: - Color: - Odor: - Odor threshold: - pH-value: - Change in condition - Melting point/Melting range: - Boiling point/Boiling range: - Boiling point/Boiling range: - Flash point: - Flammability (solid, gaseous): - Decomposition temperature: - Ignition temperature: - Ignition temperature: - Danger of explosion: - Explosion limits: - Lower: - Upper: - Vapor pressure: - Density at 20 °C: - Relative density	Pasty According to product specification Characteristic Not determined. Not determined. Undetermined. $\geq 59 - \leq 62 \degree C$ $\geq 92 \degree C$ Not applicable. Not determined. Product is not selfigniting. Not determined. Not determined. Not determined.
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- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
 Organic solvents: 	0.2 %
- VOC content:	0.22 %
	~ 2.4 g/l / ~ 0.02 lb/gal
- Solids content:	20.2 %
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:

- L	D/LC50 values that are relevant for classification:
ATE (Acu	ute Toxicity Estimate)
Oral L	_D50 11,429 mg/kg (rat)
Dermal L	LD50 30,000 mg/kg
CAS: 108	3-31-6 maleic anhydride
Oral L	_D50 400 mg/kg (rat)
Dermal L	_D50 2,620 mg/kg (rabbit)
Monofun	nctional acid ester
Dermal L	_D50 300 mg/kg (ATE)
CAS: 97-	99-4 tetrahydro-2-furylmethanol
Oral L	_D50 1,600 mg/kg (rat)

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

- Sensitization:

- Sensitization possible through inhalation.
- Sensitization possible through skin contact.

- 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)

None of the ingredients is listed.

- NTP (National Toxicology Program)

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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- Additional ecological information:	
Conoral notaci	

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 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/TDG, ADR, ADN, IMDG, IATA	not regulated	
- UN proper shipping name - DOT/TDG, ADR, ADN, IMDG, IATA	not regulated	
- Transport hazard class(es)		
- DOT/TDG, ADR, ADN, IMDG, IATA - Class	not regulated	
- Packing group		
- DOT/TDG, ADR, IMDG, IATA	not regulated	
- Environmental hazards:	Not applicable.	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of MA	ARPOL73/78	
and the IBC Code	Not applicable.	
- UN "Model Regulation":	not regulated	

15 Regulatory information

Amorphous Silica Soda-Lime Glass Monofunctional acid ester tetrahydro-2-furylmethanol tert-butyl perbenzoate Polymerization inhibitor

- 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):
CAS: 108-31-6 maleic anhydride
Monofunctional acid ester
- TSCA (Toxic Substances Control Act):
tetrahydrofurfuryl methacrylate
Butanedioic acid
Neoprene polychloroprene
2-ethylhexyl methacrylate
Desiccant
Nipol 1472X
Ethoxylated Bisphenol A Dimethacrylate Esters
maleic anhydride

acrylate Esters	ACTIVE
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- Callaula	in substance listings:
- Cana	adian Domestic Substances List (DSL)
CAS: 2455-24-5	tetrahydrofurfuryl methacrylate
	Neoprene polychloroprene
CAS: 688-84-6	2-ethylhexyl methacrylate
	Nipol 1472X
CAS: 41637-38-1	Ethoxylated Bisphenol A Dimethacrylate Esters
CAS: 108-31-6	maleic anhydride
CAS: 67762-90-7	Amorphous Silica
CAS: 65997-17-3	Soda-Lime Glass
	Monofunctional acid ester
CAS: 97-99-4	tetrahydro-2-furylmethanol
CAS: 614-45-9	tert-butyl perbenzoate
	Polymerization inhibitor
- Cana	adian Non-Domestic Substances List (NDSL)
CAS: 20882-04-6	Butanedioic acid
- Cana	adian Ingredient Disclosure list (limit 0.1%)
CAS: 108-31-6 m	ialeic anhydride
- Cana	adian Ingredient Disclosure list (limit 1%)
CAS: 2455-24-5	tetrahydrofurfuryl methacrylate
CAS: 688-84-6	2-ethylhexyl methacrylate

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
- Classification System:

- HMIS-ratings (scale 0 - 4)



- NFPA ratings (scale 0 - 4)



- Date of the latest revision of the safety data sheet 01/29/2024

- Abbreviations and acronyms:

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

- Disclaimer

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