

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/27/2026

Reviewed on 07/24/2026

1 Identification

- Product identifier

- **Trade name:** ND Microspheres® TA Series

- **Synonyms:** 800 Microspheres - Applied

- Other means of identification

- **Part number:** TA800 - applied

- **Application of the substance / the mixture** Thread Locking

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ND Industries, a subsidiary of H.B. Fuller Company
1000 North Crooks Road
Clawson, MI 48017
USA
Telephone: +1-248-288-0000
Email: nd-info@hbfuller.com
Websites: www.ndindustries.com | www.vibra-tite.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

Specific target organ toxicity (repeated exposure) 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin irritation 2

H315 Causes skin irritation.

Sensitization - skin 1

H317 May cause an allergic skin reaction.

Eye irritation 2B

H320 Causes eye irritation.

- Label elements

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

- Hazard pictograms



GHS07 GHS08

- **Signal word** Warning

- Hazard-determining components of labeling:

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate
2-[[[3-hydroxy-2,2-bis[[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate
benzoyl peroxyde
Miramer M500

- Hazard statements

H315+H320 Causes skin and eye irritation.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.

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P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
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**- Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

- Chemical characterization: Mixtures**- Description:** Mixture of the substances listed below with nonhazardous additions.**- Dangerous components:**

CAS: 25036-13-9	Polyoxymethylene melamine urea	10 – 30%
	Skin irritation 2, H315	
CAS: 24448-20-2	(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediy) bismethacrylate	7 – 13%
	Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1B, H317	
CAS: 3006-93-7	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	7 – 13%
	Acute toxicity - inhalation 1, H330; Acute toxicity - oral 4, H302; Sensitization - skin 1A, H317	
	Melamine Acrylate	3 – 7%
	Skin irritation 2, H315; Eye irritation 2A, H319	
CAS: 1332-58-7	Kaolin	3 – 7%
CAS: 60506-81-2	2-[[[3-hydroxy-2,2-bis[[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl]diacrylate	1 – 5%
	Eye irritation 2A, H319; Sensitization - skin 1, H317	
CAS: 25133-98-6	Acrylic Resin	1 – 5%
	Combustible Dust	
CAS: 63148-65-2	Binding agent	1 – 5%
	Combustible Dust	
CAS: 94-36-0	benzoyl peroxyde	1 – 5%
	Organic peroxides - Type B, H241; Eye irritation 2A, H319; Sensitization - skin 1, H317	
CAS: 8002-74-2	Paraffin wax	0.5 – 1.5%
	Combustible Dust	
	Miramir M500	0.1 – 1%
	Eye irritation 2A, H319; Sensitization - skin 1, H317	

* 4 First-aid measures

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

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:

Supply fresh air or oxygen; call for doctor.

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. Then consult a doctor.**- After swallowing:** If symptoms persist consult 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.

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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.
- **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**
Remove persons from danger area.
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:**
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

- **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of dust.
No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Prevent impact and friction.
Keep respiratory protective device available.
- **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.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
At this time, the other constituents have no known exposure limits.

CAS: 1332-58-7 Kaolin

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 2* mg/m ³ E; respirable particulate matter, A4

CAS: 94-36-0 benzoyl peroxyde

PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³ A4

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CAS: 8002-74-2 Paraffin waxREL Long-term value: 2 mg/m³TLV Long-term value: 2 mg/m³- **Additional information:** The lists that were valid during the creation were used as basis.**- Exposure controls**- **Appropriate engineering controls** No further data; see section 7.- **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.
 Store protective clothing separately.
 Avoid contact with the skin.
 Avoid contact with the eyes and skin.

- **Breathing equipment:**

Not required

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.

- **Eye protection:** Required use of safety glasses- **Body protection:** Protective work clothing

* 9 Physical and chemical properties

- Information on basic physical and chemical properties- **General Information**- **Physical state**

Solid

- **Color:**

According to product specification

- **Odor:**

Odorless

- **Odor threshold:**

Not determined

- **Melting point/Melting range:**

Undetermined

- **Boiling point/Boiling range:**

≥ 170 °C (≥ 338 °F)

- **Flammability:**

Not determined

- **Explosion limits:**- **Lower:**

Not determined

- **Upper:**

Not determined

- **Flash point:**

94 °C (201.2 °F)

- **Decomposition temperature:**

Not determined

- **pH-value:**

Not applicable

- **Viscosity:**- **Kinematic:**

Not applicable

- **Dynamic:**

Not applicable

- **Solubility in / Miscibility with**- **Water:**

Insoluble.

- **Partition coefficient (n-octanol/water):**

Not determined

- **Vapor pressure:**

Not applicable

- **Vapor pressure:**- **Density:**

Not determined

- **Relative density**

Not determined

- **Vapor density**

Not applicable

- **Particle characteristics**

Not determined

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- Other information

- Appearance:

- Form:

Solid material

- Important information on protection of health and environment, and on safety.

- Ignition temperature:

Product is not selfigniting.

- Danger of explosion:

Product does not present an explosion hazard.

Risk of explosion by shock, friction, fire or other sources of ignition.

- Solvent content:

- Organic solvents:

0.0 %

- Water:

1.2 %

- VOC content:

0.00 %

- Solids content:

50.9 %

- Change in condition

- Evaporation rate

Not applicable.

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:

Aldehyde

Hydrocarbons

* 11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	3,885 mg/kg
Inhalative	LC50/4 h	0.0389 mg/l

CAS: 3006-93-7 1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione

Oral	LD50	500 mg/kg (ATE)
Inhalative	LC50/4 h	0.005 mg/l (ATE)

- Primary irritant effect:

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

- **on the eye:** No irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- Additional toxicological information:

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

Irritant

Very toxic

- **Interactive effects** No interactive effects between components are known.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

CAS: 94-36-0	benzoyl peroxyde	3
CAS: 13463-67-7	titanium dioxide	2B
CAS: 9003-01-4	2-propenoic acid, homopolymer	3
CAS: 7631-86-9	Silicon dioxide, Untreated fumed	3
CAS: 79-10-7	acrylic acid	3
CAS: 91-20-3	naphthalene	2B
CAS: 1330-20-7	Mixed Xylenes	3
CAS: 100-41-4	ethylbenzene	2B
CAS: 98-82-8	Cumene	2B

- NTP (National Toxicology Program)

CAS: 91-20-3	naphthalene	R
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CAS: 98-82-8	Cumene	R
- OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		
- Alternative sources for toxicological information No non-standard sources for toxicological information where used.		

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable
 - **vPvB:** Not applicable
- **Other adverse effects**
 - **Additional ecological information:**
 - **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.

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, 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
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
- Special precautions for user	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: 94-36-0	benzoyl peroxyde
CAS: 79-10-7	acrylic acid
CAS: 91-20-3	naphthalene
CAS: 1330-20-7	Mixed Xylenes
CAS: 100-41-4	ethylbenzene
CAS: 98-82-8	Cumene

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- TSCA (Toxic Substances Control Act):

Polyoxymethylene melamine urea	ACTIVE
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate	ACTIVE
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	ACTIVE
Kaolin	ACTIVE
Dicalcium phosphate	ACTIVE
2-[[[3-hydroxy-2,2-bis[[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	ACTIVE
Acrylic Resin	ACTIVE
Binding agent	ACTIVE
benzoyl peroxyde	ACTIVE
Deionized water	ACTIVE
Paraffin wax	ACTIVE
titanium dioxide	ACTIVE
2-propenoic acid, homopolymer	ACTIVE
2-carboxyethyl acrylate	ACTIVE
n-butyl-4,4-di(tert-butylperoxy)-valerate (not more than 52%, and inert solid not less than 48%)	ACTIVE
Calcium carbonate	ACTIVE
Silicon dioxide, Untreated fumed	ACTIVE
acrylic acid	ACTIVE
Distillates (petroleum), hydrotreated light naphthenic	ACTIVE
Catalyst	ACTIVE
2-Naphthalenol	ACTIVE
Silicon dioxide, amorphous	ACTIVE
Colorant	ACTIVE
Alumina Trihydrate	ACTIVE
naphthalene	ACTIVE
Mixed Xylenes	ACTIVE
ethylbenzene	ACTIVE
Cumene	ACTIVE

- Hazardous Air Pollutants

CAS: 79-10-7	acrylic acid
CAS: 91-20-3	naphthalene
CAS: 1330-20-7	Mixed Xylenes
CAS: 100-41-4	ethylbenzene
CAS: 98-82-8	Cumene

- Proposition 65**- Chemicals known to cause cancer:**

CAS: 91-20-3	naphthalene
CAS: 100-41-4	ethylbenzene
CAS: 98-82-8	Cumene

- 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: 91-20-3	naphthalene	C, CBD
CAS: 1330-20-7	Mixed Xylenes	I
CAS: 100-41-4	ethylbenzene	D
CAS: 98-82-8	Cumene	D, CBD

- TLV (Threshold Limit Value)

CAS: 1332-58-7	Kaolin	A4
CAS: 94-36-0	benzoyl peroxyde	A4
CAS: 13463-67-7	titanium dioxide	A4

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CAS: 79-10-7	acrylic acid	A4
CAS: 91-20-3	naphthalene	A4
CAS: 1330-20-7	Mixed Xylenes	A4
CAS: 100-41-4	ethylbenzene	A3

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

CAS: 13463-67-7 titanium dioxide

- **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:** H.B. Fuller Company | ND Industries Health and Environmental Affairs- **Contact:** Safety, Health and Environmental Affairs

- Classification System:

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

HEALTH	4	Health = 4
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

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

4	1	0	Health = 4
			Fire = 1
			Reactivity = 0

- **Date of previous version** 08/11/2025- **Version number of previous version:** 12- **Date of preparation** 07/27/2026

- 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
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Organic peroxides - Type B: Organic peroxides – Type B
 Acute toxicity - oral 4: Acute toxicity – Category 4
 Acute toxicity - inhalation 1: Acute toxicity – Category 1
 Skin irritation 2: Skin corrosion/irritation – Category 2
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
 Eye irritation 2B: Serious eye damage/eye irritation – Category 2B
 Sensitization - skin 1: Skin sensitisation – Category 1
 Sensitization - skin 1A: Skin sensitisation – Category 1A
 Sensitization - skin 1B: Skin sensitisation – Category 1B
 Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2

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

- Disclaimer

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information, or that use of the product will avoid losses or damages or give desired results. It is user's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. The user is advised to review the specific context of the intended use to determine whether the user's intended use violates any law or infringes upon any patent(s). No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

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