



ND INDUSTRIES, INC.
 1893 BARRETT ROAD
 TROY, MICHIGAN 48084
 (248) 288-0000 Fax: (248) 288-0022
24 hr. EMERGENCY CHEMTREC:
 1-800-424-9300

PRODUCT: ND Expandable 97-2-300
MSDS ID: ND2051
ORIG. DATE: 9/16/97
REV. DATE: 6/26/07
REV. DATE:

PREPARED BY: Chemical Safety

SECTION I -Material Identification and Information H: 1 F: 1 R: 0 PPE: B

| COMPONENTS | | CAS # | PERCENT % | OSHA PEL | ACGIH TLV | OTHER LIMITS RECOMMENDED |
|----------------------------|-----------|------------|-----------|----------|-----------|--------------------------|
| Filler | EX-12-189 | 1317-65-3 | 43-45 | 15mg/M3 | 10mg/M3 | |
| Paraffinic oil | EX-12-76 | 64741-88-4 | 10-15 | 5mg/M3 | 5mg/M3 | |
| Rubber | EX-12-52 | 25038-36-2 | 15-20 | n.e. | n.e. | |
| Aromatic hydrocarbon resin | EX-12-44 | mixture | 15-20 | n.e. | n.e. | |
| Grind aid | EX-12-47 | 9002-88-4 | 1-3 | n.e. | n.e. | |
| Filler | EX-12-162 | 1314-13-2 | <1 | 10mg/M3 | 10mg/M3 | nuisance dust |
| Pigment | EX-12-49 | 1333-86-4 | <2 | 3.5mg/M3 | 3.5mf/M3 | |
| Blowing agent | EX-12-55 | 80-51-3 | <2 | n.e. | n.e. | |
| Curing Agent | EX-12-179 | 7704-34-9 | <0.5 | n.e. | n.e. | |
| Fatty acid | EX-12-163 | 57-11-4 | <0.5 | n.e. | n.e. | |

All ingredients are listed on the TSCA Inventory.

n.a.= not applicable / n.e.=not established

SECTION II -Physical and Chemical Characteristics

BOILING POINT: n.a. **VOC #/gal. :**

VAPOR DENSITY: n.a. air = 1 **DENSITY OF COATING:**

VAPOR PRESSURE: n.a.

MELTING POINT: n.a.

SPECIFIC GRAVITY: 1.51 water = 1

EVAPORATION RATE: n.a.

WATER REACTIVE: n.a.

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Charcoal gray, putty-like solid with a slight rubber-like odor.

SECTION III - Fire and Explosion Hazard Data

FLASH POINT: >200° C

AUTOIGNITION TEMPERATURE: Not determined

FLAMMABILITY LIMITS % IN AIR: LEL: n.a. UEL: n.a.

EXTINGUISHER MEDIA: Fine water spray, Carbon dioxide, or foam.

SPECIAL FIREFIGHTING PROCEDURES: Full emergency equipment with self-contained breathing apparatus should be worn by firefighters. Irritating and toxic gases may be generated by thermal decomposition and combustion. Watch footing on floors and stairs for possible melting and spreading.

UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID: Heavy water spray on molten material may scatter and spread fire.

MATERIAL SAFETY DATA SHEET

PRODUCT: ND Expandable 97-2-300

SECTION IV - Reactivity Hazard Data

STABILITY: **stable:** X **unstable:**
HAZARDOUS POLYMERIZATION: **may occur:** **will not occur:** X

CONDITIONS TO AVOID: Avoid Excessive heat.

INCOMPATIBILITY: Avoid strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Depending on fire condition, the ingredients may produce Carbon monoxide, Carbon dioxide and other combustible gases.

SECTION V - Health Hazard Data

PRIMARY ROUTES OF ENTRY: **INHALATION:** **INGESTION:** X **SKIN ABSORPTION:**

EYE CONTACT: In this form not likely.

FIRST AID: If particulate enters the eye, remove the particulate and flush with water.

SKIN CONTACT: Not applicable in solid form.

FIRST AID:

INHALATION: Not applicable in solid form.

FIRST AID:

INGESTION: Not likely to occur in product form.

FIRST AID: If swallowed, get medical attention.

CHRONIC EFFECTS: Not known

Carcinogenic: None of the components as present in the product are listed as carcinogenic.

MATERIAL SAFETY DATA SHEET

PRODUCT: ND Expandable 97-2-300

| Component | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------|-------------------|---------------------|--------------------|
| Filler | none known | none known | none known |
| Paraffinic oil | not determined | not determined | not determined |
| Rubber | not determined | not determined | not determined |
| Aromatic hydrocarbon resin | >10g/kg(rat) | not determined | 1,170mg/M3/6H(rat) |
| Grind aid | >2000 mg/kg (rat) | not determined | not determined |
| Filler | not determined | not determined | not determined |
| Pigment | not determined | not determined | not determined |
| Blowing agent | 2.3 g/kg (rat) | >200 mg/kg (rabbit) | not determined |
| Curing agent | >5000 mg/kg (rat) | >2000 mg/kg (rat) | not determined |
| Fatty acid | >10g/kg(rat) | not determined | not determined |

SECTION VI - Control and Protective Measures

RESPIRATORY PROTECTION: As supplied, not necessary.

PROTECTIVE GLOVES: Not required

EYE PROTECTION: Always wear safety glasses when working with material - Wear NIOSH approved safety glasses.

VENTILATION TO BE USED: LOCAL EXHAUST: OTHER (specify): n.a. **MECHANICAL:** **SPECIFIC:**

PROTECTIVE CLOTHING AND EQUIPMENT: As supplied, this product should not require protective clothing.

HYGIENIC WORK PRACTICES: Always practice good personal hygiene when working with chemicals and wash hands after using product.

SECTION VII - Precautions for Safe Handling and Spill/Leak Procedures

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Sweep up solid material and dispose of properly.

WASTE DISPOSAL METHODS: Dispose of material in accordance with local, state and federal regulations.

SAFE HANDLING AND STORAGE: Avoid excessive heat.

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:
n.a.

RECOMMENDED NFPA/HMIS RATING **HEALTH 1** **FLAMMABILITY 1** **REACTIVITY 0** **PERSONAL PROTECTION B**
note: ratings may differ according to application, environment, and physical state.

MATERIAL SAFETY DATA SHEET

PRODUCT: ND Expandable 97-2-300

NOTES:

DOT Shipping name: Not Regulated

SECTION 313 SUPPLIER NOTIFICATION

Detaching this notification from the Material Safety Data Sheet is prohibited by law and any copying or distribution of same requires this attachment be included.

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

| <u>CAS #</u> | <u>CHEMICAL NAME</u> | <u>% BY WEIGHT</u> |
|--------------|----------------------|--------------------|
| 1314-13-2 | Zinc oxide | 0.6% |

This product contains the following materials that under California Proposition 65 of the Safe Drinking Water and Toxic Enforcement Act of 1986 are recognized to cause cancer or reproductive toxicity.

| <u>Material</u> | <u>CAS #</u> | <u>Concentration %</u> | <u>Cancer Agent</u> | <u>Reproductive Toxin</u> | <u>cancer agent & Reproductive Toxin</u> |
|-----------------|--------------|------------------------|---------------------|---------------------------|--|
|-----------------|--------------|------------------------|---------------------|---------------------------|--|

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