



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. NN 10  
Effective Date April 1, 1999

## SECTION V HEALTH HAZARD DATA

NN 10

**Threshold Limited Value** (ACGIH 1992-93) TWA: 10 ppm, 50 mg/m<sup>3</sup> STEL: 15 ppm, 79mg/m<sup>3</sup>.  
NIOSH: human oral - 50 mg/kg.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Blood, liver, kidneys. **INHALATION:** Concentrations above 10 ppm may cause headache, vomiting, nausea and profuse sweating. **EYES:** High vapor or dust concentrations may cause eye irritation. Prolonged exposure to high levels of vapor or dust may result in corneal injury and blurring of vision. **SKIN:** Prolonged or repeated skin contact may cause skin irritation. **INGESTION:** Poisoning may occur by ingestion of large doses, inhalation or skin absorption. Ingestion may cause cramps, nausea, vomiting and diarrhea.

## Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If symptoms of illness develop, get medical attention. **EYES:** Flush eyes with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INGESTION:** If conscious, give water or milk to drink. **INDUCE VOMITING.** Get medical attention immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush with soap and water. If irritation develops or persists, get medical attention.

## SECTION VI REACTIVITY DATA

**Stability** **Unstable** **Conditions to Avoid** Excessive temperature, heat and sparks. Avoid contact between water and hot naphthalene.

**Incompatibility (Materials to Avoid)** Strong oxidizing materials, reducing agents.

**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide and unidentified organics may be formed during combustion.

**Hazardous Polymerization** **Conditions to Avoid**  
**May Occur** **Will Not Occur** Not applicable.

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Sweep up and place in a suitable container for disposal by incineration.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Make up into small packages with paper or other flammable material for incineration as applicable codes and regulations permit.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA approved dust mask or respirator.

**Ventilation** **Local Exhaust** Recommended. **Special** No.  
**Mechanical (General)** Recommended. **Other** No.

**Protective Gloves** Rubber. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Goggles, lab coat or apron, eye wash station, proper gloves, fire extinguisher.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry, well-ventilated area, away from oxidizing materials or fire hazards. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes and mucous membranes. Use with adequate ventilation. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

**Revision** No. 5 **Date** 4/1/99 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR  
The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	NAPHTHALENE
<b>Chemical Synonyms</b>	Moth Flakes; White Tar; Tar Camphor
<b>Formula</b>	C <sub>10</sub> H <sub>8</sub>
<b>Unit Size</b>	up to 2.5 Kg.
<b>C.A.S. No.</b>	91-20-3

**NFPA HAZARD RATING**  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

**HEALTH** 1  
**FIRE** 2  
**REACTIVITY** 0

**HMIS \***  
3 4

**CHEMTREC**  
800-424-9300  
Day 716-226-6177

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Naphthalene, Flakes	100%	See Section V.
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**WARNING! FLAMMABLE! IRRITANT TO SKIN, EYES AND**

**MUCOUS MEMBRANES. MAY BE FATAL IF SWALLOWED.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	80°C (176°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.145 at 20°C
Boiling Point (°F)	218°C (424°F) sublimes	Percent Volatile by Volume (%)	100% (sublimes)
Vapor Pressure (mm Hg)	0.082 @ 77°F	Evaporation Rate (Butyl Acetate =1)	1
Vapor Density (Air=1)	4.42		
Solubility in Water	Insoluble in water.		
Appearance & Odor	White, crystalline, volatile flakes; aromatic "mothball" odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	174°F (79°C) (T.C.C.)	<b>Flammable Limits in Air % by Volume</b>	Lower 0.9%	Upper 5.9%
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**Extinguisher Media** Water spray; foam; carbon dioxide (CO<sub>2</sub>); dry chemical (ABC).

## SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Autoignition Temperature: 979°F (526°C).

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 133)

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Reaction between water and molten naphthalene above 230°F (110°C) is violent, avoid use of water on hot molten naphthalene. Moderate fire hazard when exposed to heat or flame; reacts with oxidizing materials. Moderate explosion hazard in the form of dust, when exposed to heat and flame. This material is not subject to spontaneous heating.

D.O.T. NAPHTHALENE, REFINED, 4.1, UN 1334, PG III

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20