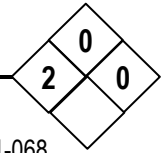




# MADISON CHEMICAL CO., INC.

3141 Clifty Drive • Madison, IN 47250

## MATERIAL SAFETY DATA SHEET



NAME:

**DART 444-NP**

PRODUCT #

LSDC01-068

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### EMERGENCY RESPONSE INFORMATION:

Company Offices:	812-273-6000	Weekdays
CHEMTREC:	800-424-9300	24-Hour Service
Steven T. Hale:	812-265-2703	Evenings and Weekends
David R. Goodman, Jr.:	812-273-6213	Evenings and Weekends

PREPARED DATE:

01-29-03

PREPARED BY:

Marjorie E. Hare

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Potassium hydroxide	Caustic potash	1310-58-3	10
Sodium hypochlorite	None	7681-52-9	3

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Off-white liquid with mild chlorine odor. Causes burns to skin, eyes and alimentary canal. May be fatal if swallowed.

#### POTENTIAL HEALTH EFFECTS:

**EYES:** Causes burns.

**SKIN:** Causes burns.

**INGESTION:** May be fatal if swallowed.

**INHALATION:** May cause nasal and respiratory irritation.

**CHRONIC EFFECTS / CARCINOGENICITY:** This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.

**POTENTIAL ENVIRONMENTAL EFFECTS:** This material contains potassium hydroxide, a substance listed under CERCLA. A release of 1,000 pounds of potassium hydroxide is reportable to the National Response Center at 800-424-8802. This material contains sodium hypochlorite, a substance listed under CERCLA. A release of 100 pounds of sodium hypochlorite is reportable to the National Response Center at 800-424-8802.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.

**SKIN:** Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.

**INGESTION:** If conscious, immediately give large quantities of water. DO NOT INDUCE VOMITING. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.

**INHALATION:** Move subject to fresh air and get medical attention.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Contacted areas will exhibit irritation or burns. Burns may not be immediately apparent. Eye contact may cause permanent injury, including blindness. If ingested, may cause nausea and vomiting. May act as a sensitizer.

**PRIMARY ROUTE (S) OF ENTRY:** Inhalation, skin, eyes.



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## 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:**

**FLASH POINT (Method used):** None prior to boiling (TOC, ASTM D1310).

**FLAMMABLE LIMITS:**

**LEL:** N.D.

**UEL:** N.D.

**EXTINGUISHING MEDIA:**

As appropriate for surrounding fire.

**FIRE FIGHTING INSTRUCTIONS:**

Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep containers cool. Exposure to heat will increase decomposition of product into chlorine gas. Chlorine gas is an oxidizer and will support combustion.

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Contain liquid spills with sand and absorb on inert material such as Hazorb or clay. Dispose with solid waste. See Waste Disposal Method. Avoid breathing vapors. Ventilate area. Do not discharge to sewers or waterways without prior treatment.

## 7. HANDLING AND STORAGE

**PRECAUTIONS:**

Store in a cool, dry area away from heat and direct sunlight to avoid deterioration. Store away from acids and reducing agents. Keep containers closed when not in use. Keep from freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

**RESPIRATORY PROTECTION:**

Use NIOSH / MSHA approved respirator for dusts and mists where airborne exposure is excessive.

**SKIN PROTECTION:**

Impermeable type. Other equipment as required to avoid contact.

**EYE PROTECTION:**

Goggles and faceshield necessary.

**GENERAL HYGIENE CONSIDERATIONS:**

Eyewash facility and emergency shower should be in close proximity.

**EXPOSURE GUIDELINES:**

**CHEMICAL IDENTITY**

Potassium hydroxide

**CAS NO.**

1310-58-3

**OSHA PEL**

2 mg / M<sup>3</sup>\*

**ACGIH TLV**

2 mg / M<sup>3</sup>\*

Sodium hypochlorite

7681-52-9

N.E.\*\*

N.E.\*\*

\*Denotes ceiling limit. \*\*Manufacturer recommends a ceiling limit of 0.5 ppm.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE & ODOR:**

Off-white liquid with mild chlorine odor.

**BOILING POINT (°F.):**

215

**SPECIFIC GRAVITY (WATER = 1):**

1.18

**VAPOR PRESSURE (mm Hg):**

N.D.

**PERCENT VOLATILE BY VOLUME (%):**

N.D.

**VAPOR DENSITY (Air = 1):**

N.D.

**EVAPORATION RATE (WATER = 1):**

N.D.

**SOLUBILITY IN WATER:**

Complete.

**pH (100%):**

13.8 – 14.2

**FLASH POINT (Method used):**

None prior to boiling (TOC, ASTM D1310).

**pH (1% by volume):**

12.2 – 12.5

**LEL:**

N.D.

**UEL:**

N.D.

## 10. STABILITY AND REACTIVITY

**STABILITY:**

Material is stable.

**INCOMPATIBILITY (Materials to Avoid):**

Acids, ammonia, amines and easily oxidized materials.

**CONDITIONS TO AVOID:**

Heat and open flames.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Chlorine gas, carbon monoxide, carbon dioxide, sulfur oxides.

**HAZARDOUS POLYMERIZATION:**

Will not occur.



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### 11. TOXICOLOGICAL INFORMATION

This material, as a whole, has not been tested. This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.

### 12. ECOLOGICAL INFORMATION

This material contains no hazardous air pollutants (HAPS). This material contains potassium hydroxide, a substance listed under CERCLA. A release of 1,000 pounds of potassium hydroxide is reportable to the National Response Center at 800-424-8802. This material contains sodium hypochlorite, a substance listed under CERCLA. A release of 100 pounds of sodium hypochlorite is reportable to the National Response Center at 800-424-8802.

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Normal for chlorine containing alkaline wastes. Sodium metabisulfite may be used to neutralize chlorine. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

### 14. TRANSPORTATION INFORMATION

**DOT PROPER SHIPPING DESCRIPTION:** Corrosive liquid, basic, inorganic, n.o.s., (contains potassium hydroxide and sodium hypochlorite), 8, corrosive materials, UN3266, PG III, ERG# 154.

**FREIGHT CLASS:** 55

### 15. REGULATORY INFORMATION

**TSCA STATUS:** All ingredients are listed on the TSCA inventory.

**CERCLA REPORTABLE QUANTITY:** 1,000 lbs. potassium hydroxide (approximately 1,013 gallons of **DART 444-W**).  
100 lbs. sodium hypochlorite (approximately 337 gallons of **DART 444-W**).

<b>SARA 311 / 312 HAZARD CLASSES:</b>	<input checked="" type="checkbox"/> Acute Health	<input type="checkbox"/> Chronic Health
	<input type="checkbox"/> Fire	<input checked="" type="checkbox"/> Reactive
	<input type="checkbox"/> Sudden Release of Pressure	

**SARA 312 INFORMATION:** Storage of 10,000 pounds or more requires filing a Tier 2 form. This material is not an extremely hazardous substance (EHS). Threshold planning quantity is 10,000 pounds.

**SARA 313 INFORMATION:** This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>CHEMICAL NAME</u>	<u>CATEGORY CODE</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
None			

#### STATE REGULATORY INFORMATION:

**CALIFORNIA (PROPOSITION 65):** California has not identified the ingredients listed in Section 2 as known to cause cancer or reproductive toxicity.

### 16. OTHER INFORMATION

**MSDS STATUS:** Revised Sections 1, 4, and 16 on 01-29-03.

**PRECAUTIONARY LABELING:** **DANGER!** Causes burns to skin, eyes and alimentary canal.  
May be fatal if swallowed.  
Contains potassium hydroxide and sodium hypochlorite.  
Do not mix DART 444-NP with acids! This will form toxic chlorine gas.

**FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN**