
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the preparation

Product Name: "NA-X"
Chemical Name: N/A – This is a mixture/preparation.
CAS No.: N/A – This is a mixture/preparation.
Chemical Formula: N/A – This is a mixture/preparation.
EINECS Number: N/A – This is a mixture/preparation.

1.2. Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

1.3. Company identification

Manufacturer/Supplier: ANSUL INCORPORATED
Address: One Stanton Street, Marinette, WI 54143-2542
Prepared by: Safety and Health Department
Phone: 715-735-7411
Internet/Home Page: <http://www.ansul.com>
Date of Issue: September, 2009

1.4. Emergency telephone

CHEMTREC 800-424-9300 or 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

- 2.1. Ingredient Name: Sodium Carbonate.
Chemical Formula: Na_2CO_3 .
CAS No.: 497-19-8.
EINECS Number: 207-838-8.
Concentration, Wt %: 88-92 %.
Hazard Identification: See Heading 3.
- Ingredient Name: Magnesium Aluminum Silicate (Attapulgite Clay or Fuller's Earth).
Chemical Formula: $\text{Mg}_x\text{Al}_y(\text{SiO}_4)_z$.
CAS No.: 8031-18-3.
EINECS Number: (b).
Concentration, Wt %: 2-4 %.
Hazard Identification: See Heading 3.

PROPRIETARY MIXTURE OF:

- Ingredient Name: Nylon.
Chemical Formula: $-\text{[NH}(\text{CH}_2)_6\text{NH]}_x\text{[CO}(\text{CH}_2)_4\text{CO]}_y-$.
CAS No.: 32131-17-2.
EINECS Number: (a).
Concentration, Wt %: 4-6 %.
Hazard Identification: See Heading 3.
- Ingredient Name: Sodium Stearate.
Chemical Formula: $\text{C}_{17}\text{H}_{35}\text{CO}_2\text{Na}$.
CAS No.: 822-16-2.
EINECS Number: 212-490-5.
Concentration, Wt %: 1-3 %.
Hazard Identification: See Heading 3.
- (a) EINECS does not include synthetic polymers (These are registered in EINECS under their building blocks, monomers). See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.
- (b) EINECS does not include most naturally occurring raw materials. See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.

3. HAZARDS IDENTIFICATION

FOR HUMANS:

Product:

EU Classification:	Xi	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	22	Do not breathe dust.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Components:

Sodium Carbonate:

EU Classification:	Xi	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	22	Do not breathe dust.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Limit Values for Exposure:

Nuisance dust limit:	OSHA TWA:	15 mg/m ³ .
	ACGIH TLV-TWA	10 mg/m ³ .

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, I.A.R.C., or OSHA.

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

SIGNS AND SYMPTOMS:

Acute Exposure:

Eye Contact:	Eye contact with solid particles or solutions will cause severe irritation of the eyes. Tissue damage can occur if left untreated.
Skin Contact:	Sodium Carbonate is irritating to the skin. Chronic irritation of the hands and wrists may occur after prolonged skin contact.
Inhalation:	Inhalation of dusts may produce upper respiratory tract irritation. Perforation of the nasal septum may occur after exposure to Sodium Carbonate dusts.
Ingestion:	Irritation of the mouth and gastrointestinal tract will occur immediately followed by nausea, vomiting, abdominal pain, diarrhea, and possibly local tissue damage. Permanent damage to esophageal structures may occur if medical attention is not obtained.

Chronic Overexposure: Gastrointestinal problems can develop.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory problems.

FOR ENVIRONMENT:

See Heading 12.

4. FIRST AID MEASURES

Eye Contact:	Flush with large amounts of water for minimum of 15 minutes. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Continue irrigation for an additional 15 minutes if the physician is not available.
Skin Contact:	Wash with soap and water. Remove contaminated clothing. Do not attempt to neutralize with chemical agents. Obtain medical attention unless irritation is minor.
Inhalation:	Remove victim to fresh air. Seek medical attention if discomfort continues.
Ingestion:	If patient is conscious, give large amounts of water or milk to drink. DO NOT INDUCE VOMITING. If a physician cannot be reached or if the patient is delayed in transit, an attempt may be made to neutralize the sodium carbonate with dilute solutions of vinegar, orange juice, or lemon juice. Small quantities of olive oil (one teaspoon) may be given intermittently after neutralization.

5. FIRE-FIGHTING MEASURES

This preparation is an extinguishing media.
There are NO extinguishing media which must not be used for safety reasons.
NO special protective equipment is needed for fire-fighters.

6. ACCIDENTAL RELEASE MEASURES

For personal protection: Prevent skin and eye contact, see Heading 8.
Clean up: Sweep up and reuse or place in a closed container for disposal, see Heading 13.
Keep from entering surface water. For harm to the environment see Heading 12.

7. HANDLING AND STORAGE

7.1. Handling

Care should be taken in handling all chemical substances and preparations.
See incompatibility information in Heading 10.

7.2. Storage

NO special conditions are needed for safe storage.
See incompatibility information in Heading 10.
Store in original container. Keep tightly closed until used.
Keep from entering surface water. For harm to the environment see Heading 12.

7.3. Specific use

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Limit Values for Exposure:

Nuisance dust limit: OSHA TWA: 15 mg/m³.
ACGIH TLV-TWA: 10 mg/m³.

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

Mechanical ventilation is recommended. Dust mask where dustiness is prevalent, or TLV is exceeded.
Use mechanical filter respirator if exposure is prolonged.

8.2.1.2. Hand protection

Use chemical resistant gloves when handling the preparation.

8.2.1.3. Eye protection

Chemical goggles are recommended.

8.2.1.4. Skin protection

Use long sleeved work clothes.

8.2.2. Environmental exposure controls

Keep from entering surface water. For harm to the environment see Heading 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: White Powder.
Odor: None.

9.2. Important health, safety, and environmental information

pH: 11.6 in water solution.
Boiling point/boiling range: Not applicable.
Flash point: None.
Flammability (solid/gas): Not flammable.
Explosive properties: Not explosive.
Oxidizing properties: Not an oxidizer.
Vapor Pressure: Not applicable.
Relative Density: Not applicable.
Solubility:
– Water solubility: Partly soluble.
– Fat solubility: Not soluble.
Partition coefficient, n-octanol/water: Not applicable.
Viscosity: Not applicable.
Vapor density (Air = 1): Not applicable.
Evaporation rate: Not applicable.

9.3. Other information

Auto-ignition temperature: Does not ignite.

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid

There are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

10.2. Materials to avoid

Strong acids, Aluminum, Phosphorous oxide.

10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will NOT occur.

Combustion or decomposition products include carbon dioxide.

11. TOXICOLOGICAL INFORMATION

This product has not been tested for toxicological effects. Product is treated as a nuisance dust.

Components:

Sodium Carbonate:

Irritation Data:	Skin (rabbit)	500 mg/24 hours	Mild.
	Eye (rabbit)	50 mg.	Severe.
Toxicity Data:	Oral (rat) LD ₅₀	4090 mg/kg.	
	Inhalation (rat) LC ₅₀	2300 mg/m ³ /2 hrs	

Target Organs: Gastrointestinal.

Magnesium Aluminum Silicate (Attapulgate Clay or Fuller's Earth):

Irritating to eyes, skin, mucous membranes.

Target Organs: Lungs.

Nylon:

Toxicity Data:	Oral (rat) LD ₅₀	>10 g/kg.
----------------	-----------------------------	-----------

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Acute Toxicity:

Fish:	Gambusia affinis:	LC ₅₀ (96 hrs) = 740 mg/L.
	Lapomis macrochirus:	LC ₅₀ (96 hrs) = 320 mg/L.
Invertebrates:	Daphnia magna:	LC ₅₀ (48 hrs) = 265-565 mg/L.
	Dugesia sp.	LC ₅₀ (48 hrs) = 360 mg/L.
Algae:	Nitzschia sp.	LC ₅₀ (5 day) = 1050 mg/L.

Chronic Toxicity:

Fish:	Oncorhynchus sp.	LC ₁₀₀ (5 day) = 68-70 mg/L.
	Salmo clarki	LC ₁₀₀ (5 day) = 80 mg/L.

12.2. Mobility

Not determined.

12.3. Persistence and degradability

Not determined.

12.4. Bioaccumulative potential

Not determined.

12.5. Other adverse effects

Ozone depletion potential: None.

Photochemical ozone creation potential: None

Global warming potential: Carbon dioxide from decomposition or reaction is a global warming gas.

13. DISPOSAL CONSIDERATIONS

No harm to the environment is expected from this preparation.

Dispose of in compliance with national, regional, and local provisions that may be in force.

14. TRANSPORT INFORMATION

Hazard Class or Division: Not a hazardous substance.

For additional transport information, contact Ansul Incorporated.

Keep from entering surface water. For harm to the environment see Heading 12.

15. REGULATORY INFORMATION

Product:

EU Classification:	Xi	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	22	Do not breathe dust.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Limit Values for Exposure:

Nuisance dust limit:	OSHA TWA:	15 mg/m ³ .
	ACGIH TLV-TWA:	10 mg/m ³ .

EINECS Status: All components are included in EINECS inventories or are exempt from listing

EPA TSCA Status: All components are included in TSCA inventories or are exempt from listing.

Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.

Environmental restrictions: None are known.

Restrictions on Marketing and Use: None are known.

Refer to any other national measures that may be relevant.

16. OTHER INFORMATION**(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:**

HEALTH:	<u>2</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	2. Moderate Hazard
		1. Slight Hazard
		0. Minimal Hazard

(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

This product is rated **D2B Irritating to eyes and skin.**

Format is from directive 2001/58/EC.

EINECS data is from <http://exb.jrc.it/existing-chemicals/>

Data used to compile the data sheet is from Ansul Material Safety Data Sheet, February, 2002.

The EU Classification has been changed in accordance with Directive 1999/45/EC and information in the EINECS ESIS files (Existing Substances Information System).

Toxicological information added from the EINECS ESIS (Existing Substances Information System).

A rating under WHMIS has been added, following the Canadian guidelines.

17. DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ANSUL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available

MSDS available at <http://www.ansul.com>

ANSUL is a trademark of Tyco International Ltd. or its affiliates.