

## Nawkaw Emulsion Color Treatment

Page 1 of 7

MSDS Preparation Date (dd/mm/yyyy): 13/02/2009

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** : **Nawkaw Emulsion Color Treatment**

**Product Code(s)** : NECT-90 Base

**Product Use** : Water-based, penetrating, color treatment. For use on above grade vertical masonry surfaces.

**Chemical Family** : Modified acrylic latex mixture.

**Supplier's name and address:**  
**Nawkaw Corporation**  
2283 Argentia Road - #23  
Mississauga, ON, Canada  
L5N 5Z2

**Manufacturer's name and address:**  
Refer to Supplier

**Information Telephone No.** : (905) 542-7893

**24 Hr. Emergency Tel #** : (613) 996-6666 (CANUTEC)

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
			<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ethylene glycol	107-21-1	1.00 - 5.00	100 mg/m <sup>3</sup> (as aerosol) (Ceiling)	N/Av	*50 ppm (Ceiling)	N/Av
Calcium carbonate	1317-65-3	10.00 - 30.00	10 mg/m <sup>3</sup> (inhalable); 3 mg/m <sup>3</sup> (respirable) (as PNOS)	N/Av	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable fraction)	N/Av
Attapulgit	12174-11-7	1.00 - 5.00	N/Av	N/Av	N/Av	N/Av

\*Note: The OSHA PEL listed above for Ethylene glycol is a final rule / vacated value.

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Colourless liquid. Solvent odour.

**WARNING!**

May be harmful or fatal if swallowed. May be harmful if absorbed through the skin.

May cause nausea, vomiting, headache and other central nervous system effects.

Could also cause convulsions, coma, respiratory arrest and death. Can cause kidney damage.

Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

Possible cancer hazard - contains material which may cause cancer.

### \*\*\*POTENTIAL HEALTH EFFECTS\*\*\*

**Target organs** : Skin, respiratory system, digestive system, central nervous system, liver, kidneys.

**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

### Signs and symptoms of short-term (acute) exposure

*Inhalation* : May cause irritation to the nose, throat and upper respiratory tract. Effects of breathing high concentrations of vapour may include: burning sensation; Cough; Drowsiness.

*Skin* : Direct skin contact may result in little or no irritation. Product may be absorbed and cause symptoms similar to those listed for ingestion.

*Eyes* : May cause mild eye irritation. Symptoms may include inflammation and tearing.

*Ingestion* : May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May potentially result in lethal kidney damage. Could also cause convulsions, coma, respiratory arrest and death.

### Effects of long-term (chronic) exposure

: Prolonged or repeated ingestion may cause bladder or kidney stones.

### Conditions aggravated by overexposure

## Nawkaw Emulsion Color Treatment

Page 2 of 7

MSDS Preparation Date (dd/mm/yyyy): 13/02/2009

- Carcinogenic status** : Pre-existing skin or eye disorders, and impaired liver or kidney functions.
- Carcinogenic status** : Possible cancer hazard. See TOXICOLOGICAL INFORMATION, Section 11.
- Additional health hazards** : Potential teratogen. See TOXICOLOGICAL INFORMATION, Section 11.
- Potential environmental effects** : See ECOLOGICAL INFORMATION, Section 12.

### SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist.
- Skin contact** : Immediately flush with plenty of water, while removing contaminated clothing. If irritation persists, seek prompt medical attention.
- Eye contact** : Immediately flush eye(s) with plenty of water. If irritation persists, seek prompt medical attention.
- Ingestion** : If swallowed, obtain medical attention immediately. Induce vomiting ONLY under the direct supervision of qualified medical personnel or a poison control centre. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Prompt medical attention is important. This product is a CNS depressant.

### SECTION 5 - FIRE FIGHTING MEASURES

#### Fire hazards/conditions of flammability

- : Not flammable under normal conditions of handling. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas.

#### Flammability classification (OSHA 29 CFR 1910.1200)

- : Combustible Liquid Class III B.

#### Flash point

- : > 111°C (232°F)

#### Flash point Method

- : closed cup

**Auto-ignition temperature** : N/Av

#### Lower flammable limit (% by vol.)

- : 3.2 (Ethylene glycol)

**Upper flammable limit (% by vol.)**

: 15.3 (Ethylene glycol)

#### Oxidizing properties

- : None known.

#### Flame Projection Length

- : N/Av

**Flashback observed**

: N/Av

#### Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

#### Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

#### Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

#### Hazardous combustion products

- : Carbon oxides and other irritating fumes and smoke.

#### NFPA Rating

0 - Minimal    1 - Slight    2 - Moderate    3 - Serious    4 - Severe

: Health: 1    Flammability: 1    Instability: 0    Special Hazards: None

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

## Nawkaw Emulsion Color Treatment

Page 3 of 7

MSDS Preparation Date (dd/mm/yyyy): 13/02/2009

**Spill response/cleanup** : Remove all sources of ignition. Ventilate area of release. Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Prohibited materials** : Do not use combustible absorbents, such as sawdust.

### Special spill response procedures

: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).  
US CERCLA Reportable quantity (RQ): Ethylene glycol (5000 lbs / 2270 kg)

## SECTION 7 - HANDLING AND STORAGE

**Safe Handling procedures** : This material is a harmful liquid. Wear suitable protective equipment during handling. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Use with adequate ventilation. Do not ingest. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Keep out of the reach of children.

**Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

**Incompatible materials** : Strong oxidizers (e.g. Chlorine, Peroxides, etc.), acids (e.g. sulfuric acid, nitric acid), caustics.

**Special packaging materials** : Not available.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Ventilation and engineering measures

: Use with adequate ventilation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

**Respiratory protection** : If mists are formed, or in confined spaces, respiratory protection may be required. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.

**Skin protection** : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

**Eye / face protection** : Chemical splash goggles are recommended. A full face shield may also be necessary.

**Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.

### General hygiene considerations

: Do not ingest. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. When using do not eat or drink. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

**Permissible exposure levels** : For individual ingredient exposure levels, see Section 2.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Liquid.	<b>Appearance</b>	: colourless
<b>Odour</b>	: Solvent odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: N/Av		
<b>Boiling point</b>	: 100 - 244°C (212 - 471.2°F)	<b>Specific gravity</b>	: 1.16
<b>Melting/Freezing point</b>	: N/Av	<b>Coefficient of water/oil distribution</b>	

## Nawkaw Emulsion Color Treatment

Page 4 of 7

MSDS Preparation Date (dd/mm/yyyy): 13/02/2009

<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: N/Av	<b>Solubility in water</b>	: N/Av
: N/Av			
<b>Vapour density (Air = 1)</b>	: > 1	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Volatile organic Compounds (VOC's)</b>	: 119.7 g/L	<b>Volatiles (% by weight)</b>	: 65.83%

### SECTION 10 - REACTIVITY AND STABILITY DATA

<b>Stability and reactivity</b>	: Stable under the recommended storage and handling conditions prescribed.
<b>Hazardous polymerization</b>	: Will not occur.
<b>Conditions to avoid</b>	: Avoid heat and open flame. Do not use in areas without adequate ventilation.
<b>Materials To Avoid And Incompatibility</b>	: Incompatible materials (see Section 7).
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

### SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Toxicological data</b>	: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.
---------------------------	---

<b>Ingredients</b>	<b>LC<sub>50</sub>(4hr)</b> <b>inh, rat</b>	<b>LD<sub>50</sub></b>	
		<b>oral</b>	<b>dermal</b>
Ethylene glycol	N/Av	5890 mg/kg (rat)	9500 mg/kg (rabbit)
Calcium carbonate	N/Av	6450 mg/kg (rat)	N/Av
Attapulgite	N/Av	N/Av	N/Av

<b>Carcinogenic status</b>	: Contains: Attapulgite. Attapulgite is classified as carcinogenic by IARC (Group 2B).
<b>Reproductive effects</b>	: Not expected to have other reproductive effects.
<b>Teratogenicity</b>	: Contains ethylene glycol, which may cause teratogenic effects at doses which are not maternally toxic, based on animal data.
<b>Mutagenicity</b>	: Not expected to be mutagenic in humans.
<b>Epidemiology</b>	: Not available.
<b>Sensitization to material</b>	: Not expected to be a skin or respiratory sensitizer.
<b>Synergistic materials</b>	: Not available.
<b>Irritancy</b>	: May be mildly irritating to eyes and skin.
<b>other important hazards</b>	: CNS depression may result from extreme exposures.

### SECTION 12 - ECOLOGICAL INFORMATION

<b>Environmental effects</b>	: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
<b>Important environmental characteristics</b>	: Not available.
<b>Ecotoxicological</b>	: No data is available on the product itself.

### SECTION 13 - DISPOSAL CONSIDERATIONS



<b>Handling for Disposal</b>	: Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
<b>Methods of Disposal</b>	: Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**Nawkaw Emulsion Color Treatment**

MSDS Preparation Date (dd/mm/yyyy): 13/02/2009

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 - TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	None	Not regulated.	Not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				
TDG	None	Not regulated.	Not regulated	none	
<b>TDG Additional information</b>	None.				

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302):Ethylene glycol(5000 lbs / 2270 kg)

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372:This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Ethylene glycol.

**US State Right to Know Laws:**

California Proposition 65: This product contains a chemical known to the State of California to cause cancer. This product contains: Attapulgite (1 - 5%); Crystalline silica, quartz (< 0.1%).

**International Information:**

Canadian WHMIS Classification:  
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material).

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

***This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.***

**SECTION 16 - OTHER INFORMATION**

**Nawkaw Emulsion Color Treatment**

MSDS Preparation Date (dd/mm/yyyy): 13/02/2009

**HMIS Rating** : \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
*Health:* \*1 *Flammability:* 1 *Reactivity:* 0

**Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 CNS: Central Nervous System  
 DOT: Department of Transportation  
 EPA: Environmental Protection Agency  
 NFPA: National Fire Protection Association  
 HMIS: Hazardous Materials Identification System  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 Inh: Inhalation  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 N/Ap: Not Applicable  
 N/Av: Not Available  
 NIOSH: National Institute of Occupational Safety and Health  
 NTP: National Toxicology Program  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible exposure limit  
 PNOS: Particles Not Otherwise Specified  
 RCRA: Resource Conservation and Recovery Act  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: Short Term Exposure Limit  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2008.
  2. International Agency for Research on Cancer Monographs, searched 2009.
  3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2009 (Chempendium, HSDB and RTECs).
  4. Material Safety Data Sheet from manufacturer.
  5. California Proposition 65 List - December 19, 2008 version.
  6. US EPA Title III List of Lists - October 2006 version.

**Prepared for:**

Nawkaw Corporation  
2283 Argentia Road - #23  
Mississauga, ON, Canada, L5N 5Z2  
Telephone: (905) 542-7893  
Please direct all enquiries to Nawkaw Corporation.



**Prepared by:**

ICC The Compliance Center Inc.  
Canada: 1-888-977-4834  
USA: 1-888-442-9628  
<http://www.thecompliancecenter.com>



**DISCLAIMER OF LIABILITY**

---

**Nawkaw Emulsion Color Treatment**

Page 7 of 7

MSDS Preparation Date (dd/mm/yyyy): 13/02/2009

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Nawkaw Corporation and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Nawkaw Corporation expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Nawkaw Corporation.

**MSDS Preparation Date (dd/mm/yyyy)**

: 13/02/2009

**END OF DOCUMENT**