# Natro-Rez™ 25

## 1: Identification

**Product identifier:** Natro-Rez<sup>™</sup> 25

Other means of identification: Coumarone-indene resin

Supplier:

NATROCHEM, Inc. P.O. Box 1205

Savannah, GA 31402-1205 912-236-4464

**Recommended use:** Adhesives, coatings, rubber

**Restrictions on use:** Not applicable.

Emergency phone number: CHEMTREC (USA) 800-424-9300 CHEMTREC (Int'l) 202-483-7616

# 2: Hazard(s) identification

GHS classification: Flammable liquid – Category 4

Specific target organ toxicity, single exposure – Category 3 (central

nervous system, respiratory system)

Specific target organ toxicity, repeated exposure – Category 2 (skin)

Aspiration hazard – Category 1

#### **GHS** label elements

Signal word: DANGER
Symbol(s):





Hazard statements: H227: Combustible liquid

H304: May be fatal if swallowed and enters airways

H335: May cause respiratory irritation H336: May cause drowsiness or dizziness

H372: Causes damage to skin through prolonged or repeated

exposure

Hazards not otherwise

classified:

Contact with molten (hot) material may cause thermal burns.

**Precautionary statements:** 

**Prevention:** Keep away from sources of ignition – No smoking.

Do not breathe dust, mist, fumes, or vapours. Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

**Response:** In case of fire: use appropriate media for extinction.

IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

Call a POISON CENTER/doctor if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. DO NOT

induce vomiting.

**Storage:** Store in a well-ventilated place.

Keep container tightly closed.

Keep cool.

Store locked up.

**Disposal:** Dispose of contents/container in accordance with applicable

regulations.

**Supplemental information:** Not applicable.

# 3: Composition

Ingredient	Synonyms	CAS number	Concentration (%)
Coumarone-indene resin		63393-89-5	Trade secret
Naphtha, petroleum, aromatic-		68603-08-7	Trade secret
containing			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### **Contaminants**

Naphthalene (91-20-3) is contained in most of the raw materials for this product as a non-reactive, non-intentional material. It has a relatively high boiling point (218°C) and has a great affinity for petroleum hydrocarbon resins and thus is very difficult to remove completely from the resins. This product typically contains less than 500 ppm of naphthalene.

#### 4: First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have SDS information available. Never give anything by mouth to an unconscious or convulsing person.

#### **Description of necessary first aid measures**

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes

with running water for at least 15 minutes, keeping eyelids open.

Seek immediate medical attention.

**Inhalation:** Remove to fresh air. Keep person warm and at rest. If not breathing,

if breathing is irregular, or if respiratory arrest occurs, provide

artificial respiration or oxygen by trained personnel.

**Skin contact:** Remove contaminated clothing and shoes. Wash skin thoroughly

with soap and water or use recognized skin cleanser. Do NOT use

solvents or thinners.

**Ingestion:** If swallowed, seek medical advice immediately and show this

container or label. Keep person warm and at rest. Do NOT induce

vomiting.

## Most important symptoms/effects, acute and delayed.

#### Potential acute health effects

**Eye contact:** Mild eye irritation.

**Inhalation:** Respiratory tract irritation, nervous system damage.

**Skin contact:** Mild skin irritation. May cause damage to skin through prolonged or

repeated exposure.

**Ingestion:** Aspiration hazard.

# Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

# 5: Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing media: Use dry chemical, CO<sub>2</sub>, water spray (fog), or foam.

Unsuitable extinguishing

Do not use a solid water stream as it may scatter and spread fire.

media:

Specific hazards arising from

the chemical:

Avoid generating vapours; vapours dispersed in air in sufficient concentrations and in the presence of an ignition source are a potential explosion hazard. Vapours are heavier than air and can collect in low areas; vapours can travel to an ignition source and

flash back.

Hazardous thermal In the event of a fire, hazardous decomposition products may

**decomposition products:** include:

Carbon monoxide Carbon dioxide

Other unidentified organic compounds

Special protective actions for

firefighters:

nont

**Special protective equipment** 

for firefighters:

No action shall be taken involving any personal risk or without proper training.

Firefighters and others who may be exposed to products of

combustion should wear full firefighting turn out gear (full bunker gear) and self-contained breathing apparatus (SCBA) operated in pressure-demand mode (MSHA/NIOSH approved or equivalent).

#### 6: Accidental release measures

## Personal precautions, protective equipment, and emergency procedures

**For non-emergency** Keep unnecessary and unprotected personnel from entering. Do not

**personnel:** touch or walk through spilled material. Product forms slippery

surface when combined with water. No action shall be taken

involving any personal risk or without suitable training.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note

of any information in **Section 8** on suitable and unsuitable materials. See also the information immediately above in "For non-emergency

personnel".

**Environmental precautions:** Avoid release to sewers, waterways, soil, or air. Inform the relevant

authorities if the product has caused environmental pollution

(sewers, waterways, soil, or air).

## Methods and materials for containment and cleaning up

Small spill: Use non-sparking tools and equipment. Absorb with sand or other

non-combustible material. Collect spilled material in appropriate container for disposal. In case of spillage, stop the flow of material

and block any potential routes to water systems

Large spill: Use non-sparking tools and equipment. Absorb with sand or other

non-combustible material. Collect spilled material in appropriate container for disposal. In case of spillage, stop the flow of material

and block any potential routes to water systems

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# 7: Handling and storage

## **Precautions for safe handling**

**Protective measures:** Put on appropriate personal protective equipment (see **Section 8**).

Avoid contact with molten (hot) material.

**Advice on general** Eating, drinking, and smoking should be prohibited in areas where **occupational hygiene:** this material is handled, stored, and processed. Workers should

this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Avoid alteration of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter

toxicological properties.

See also **Section 8** for additional information on hygiene measures.

Conditions for safe storage, Store in accordance with local regulations. Store in original container

protected from direct sunlight in a dry, cool, and well-ventilated area away from incompatible materials (see **Section 10**) and food and drink. Keep container tightly closed and sealed until ready for use.

Do not store in unlabeled containers.

Keep away from: strong oxidizing materials; combustible materials

# 8: Exposure controls/personal protection

## **Control parameters**

**Occupational exposure limits** 

Ingredient	OSHA PEL	ACGIH TLV	NIOSH REL
Naphthalene	50 mg/m <sup>3</sup> TWA	10 ppm TWA	50 mg/m <sup>3</sup> TWA
	10 ppm TWA	15 ppm STEL	10 ppm TWA
		Skin – potential	75 mg/m <sup>3</sup> STEL
		significant	15 ppm STEL
		contribution to	250 ppm IDLH
		overall exposure by	
		the cutaneous route	

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere, or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required. Good general ventilation should be sufficient to control worker

Appropriate engineering controls:

Environmental exposure

controls:

exposure to airborne contaminants.

Emissions from ventilation or work process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical

products, before eating, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be

used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: splash goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. When

handling hot material, wear heat-resistant gloves that are able to

withstand the temperature of molten product.

**Body protection:** Personal protective equipment for the body should be selected

based on the task being performed and the risks involved and should

be approved by a specialist before handling this product.

**Other skin protection:** Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

**Respiratory protection:** Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe working

limits of the selected respirator. If workers are exposed to

concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment

indicates this is necessary.

# 9: Physical and chemical properties

**Appearance** 

Physical state: Viscous liquid
Color: Amber

Odor:Petroleum odorOdor threshold:Not available.pH:Not available.Softening point (ring and ball): $10 \pm 5^{\circ}$ CMelting/freezing point:Not available.Boiling point and range: $\geq 325^{\circ}$ C

Flash point: ≥ 330°F Evaporation rate: < 1

Flammability: Combustible liquid Flammability or explosive Not available.

limits:

Vapor pressure: Not available.

Vapor density: > 1

**Relative density:** Approximately 1.04 @ 25°C

Solubility: Not available. Partition coefficient: n- Not available.

octanol/water:

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not applicable.

# 10: Stability and reactivity

**Reactivity:** None known.

**Chemical stability:** This product is stable at normal temperature and pressure.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions

reactions: will not occur.

**Conditions to avoid:** Avoid heat, flames, and other sources of ignition.

Avoid contact with incompatible materials.

Avoid generating dust.

Avoid contact with molten material.

Refer to protective measures listed in **Sections 7 and 8**.

**Incompatible materials:** Reactive or incompatible with the following materials:

Strong oxidizing materials

**Hazardous decomposition** 

products:

In the event of a fire, hazardous decomposition products may

include:

Carbon monoxide Carbon dioxide

Other unidentified organic compounds

# 11: Toxicological information

# Information on toxicological effects

#### **Acute toxicity**

**Conclusion/summary:** No known significant effects or critical hazards.

Ingredient	Result	Species	Dose	Exposure
Naphthalene	LD <sub>50</sub> oral	Rat	1110 mg/kg	-
	LD <sub>50</sub> dermal	Rabbit	1120 mg/kg	-
	LC <sub>50</sub> inhalation	Rat	> 340 mg/kg	1 hr

#### Irritation/corrosion

Conclusion/summary

**Skin:** No known significant effects or critical hazards. **Eyes:** No known significant effects or critical hazards.

**Respiratory:** May cause respiratory irritation.

**Sensitization** 

**Conclusion/summary:** 

**Skin:** No known significant effects or critical hazards. **Respiratory:** No known significant effects or critical hazards.

**Mutagenicity:** 

**Conclusion/summary:** No known significant effects or critical hazards.

Carcinogenicity

**Conclusion/summary:** No known significant effects or critical hazards.

Classification

Ingredient	OSHA	IARC	NTP
Naphthalene	+	2B	Reasonably anticipated to be a human carcinogen

Carcinogen classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: [Known/Reasonably anticipated] to be a human carcinogen

OSHA: +

Not listed/regulated: -

**Reproductive toxicity** 

**Conclusion/summary:** No known significant effects or critical hazards.

**Teratogenicity** 

**Conclusion/summary:** No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

**Conclusion/summary:** May cause damage to skin through prolonged or repeated exposure.

<u>Target organs</u> Skin, central nervous system, respiratory system

**Aspiration hazard** 

May be fatal if swallowed and enters airways.

**Information on the likely routes** Routes of entry anticipated: oral, dermal, inhalation.

of exposure:

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** Exposure to airborne concentrations above statutory or

recommended exposure limits may cause drowsiness and dizziness

or irritation of the nose, throat, and lungs.

**Skin contact:** Prolonged or repeated contact may damage skin. **Ingestion:** May be fatal if swallowed and enters airways.

## Symptoms related to the physical, chemical, and toxicological characteristics

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** Exposure to airborne concentrations above statutory or

recommended exposure limits may cause drowsiness and dizziness

or irritation of the nose, throat, and lungs.

**Skin contact:** Prolonged or repeated contact may damage skin. **Ingestion:** May be fatal if swallowed and enters airways.

# Delayed and immediate effects and also chronic effects from short- and longterm exposure

#### **Short-term exposure**

**Potential immediate** Symptoms may include mild skin irritation, mild eye irritation,

effects nervous system damage, respiratory tract irritation, and aspiration

hazard.

**Potential delayed effects** May cause damage to skin through prolonged or repeated exposure.

Long-term exposure

**Potential immediate** Symptoms may include mild skin irritation, mild eye irritation,

effects nervous system damage, respiratory tract irritation, and aspiration

hazard.

**Potential delayed effects** May cause damage to skin through prolonged or repeated exposure.

#### Potential chronic health effects

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.

**Fertility effects:** No known significant effects or critical hazards.

## **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

# 12: Ecological information

**Toxicity** 

Ingredient	Result	Species	Exposure
Naphthalene	LC50 5.74-6.44 mg/L	Fish – pimephales	96 hr flow-thru
		promelas	
	LC50 1.6 mg/L	Fish – oncorhyncus mykiss	96 hr flow-thru
	LC50 0.91-2.82 mg/L	Fish – oncorhyncus mykiss	96 hr static
	LC50 1.99 mg/L	Fish – pimephales	96 hr static
		promelas	
	LC50 31.0265 mg/L	Fish – <i>lepomis</i>	96 hr static
		macrochirus	
	EC50 0.4 mg/L	Algae – skeletonoma	72 hr
		costatum	
	EC50 2.16 mg/L	Daphnia – daphnia magna	48 hr
	EC50 1.96 mg/L	Daphnia – daphnia magna	48 hr flow-thru
	EC50 1.09-3.4 mg/L	Daphnia – <i>daphnia magna</i>	48 hr static

# Persistence and degradability

No information available.

# **Bioaccumulative potential**

No information available.

**Mobility in soil** 

Soil/water partition

Not available.

coefficient (K<sub>oc</sub>): Other adverse effects:

No known significant effects or critical hazards.

# 13: Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever

possible. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local

authority requirements.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Refer to Sections 6, 7, and 8 for additional information on accidental release measures, handling and storage, and exposure controls.

# 14: Transport information

	DOT	IMDG	IATA	
UN number	Not regulated in	Not regulated in	Not regulated in	
	non-bulk packaging	non-bulk packaging	non-bulk packaging	
UN proper shipping name	-	-	-	
Transport hazard class(es)	-	-	-	
Packing group	-	-	-	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Additional information	-	-	-	

**Special precautions for user:** Transport within user's premises: always transport in closed

containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.

Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC code:

# 15: Regulatory information

#### **Inventory status**

United States inventory (TSCA

8b):

All components are listed or exempted.

Australia inventory (AICS):

Canada inventory (DSL):

All components are listed or exempted.

Japan inventory (ENCS): Not listed.

**Korea inventory (KECI):** All components are listed or exempted. **New Zealand inventory (NZIoC):** All components are listed or exempted.

#### **United States**

#### **US Federal regulations:**

#### SARA Title III

#### **Section 302 – Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or are regulated but present in negligible concentrations.

#### **Section 311/312 – Hazard Categories:**

Chronic health

#### **Section 313 – Toxic Chemicals:**

Naphthalene: 0.1% de minimis concentration

# Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RO)

Naphthalene: 100 lb (45.4 kg) final RQ

#### **US State regulations:**

Ingredient	NJ RTK	MA RTK	PN RTK	CA Prop. 65
Naphtha, petroleum,	Not listed	Not listed	Not listed	Not listed
aromatic-containing				
Naphthalene	Listed	Listed	Listed	Listed

#### 16: Other information

# **Hazardous Material Identification System (USA)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1901.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the Nation Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J.Keller 800-327-6868.

The customer is responsible for determining the PPE code for this material.

#### **Key to abbreviations:**

ATE Acute toxicity estimate
BCF Bioconcentration factor

GHS Globally Harmonized System of classification and labeling of chemicals

IATA International Air Transport Association

IBC Intermediate bulk container

IMDG International Maritime Dangerous Goods

LogPow Logarithm of the octanol/water partition coefficient

MARPOL 73/78 International convention for the Prevention of Pollution from Ships, 1973,

as modified by the Protocol of 1978. (MARPOL = marine pollution)

UN United Nations

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