

Section 1: Identification**Product Identifier**

Product Name N&V Expansion Liquid
Product Code 80040, 80045

Relevant identified uses of the substance or mixture and uses advised against

Recommended use Liquid used by dental professionals for mixing casting investments

Details of the supplier of the safety data sheet

Manufacturer/Supplier Vacalon Company Inc
12960 Stonecreek Dr Ste C
Pickerington, OH 43147 USA
www.vacalon.com • info@vacalon.com
Telephone (General) 614-577-1945

Emergency telephone number

Hazmat Services Inc (24 hour) 800-373-7542 (USA)
484-951-2432 (International)

Section 2: Hazard Identification**Classification of the substance or mixture**

- Material is not classified as a hazardous material.

Label elements

- This product is not subject to identification regulations.

Other information

- Observe normal safety regulations and precautions when handling chemicals

Section 3. Composition/Information on Ingredients

Chemical characterization • Mixtures
Description • Solution of colloidal silica in water
Hazardous Components • Product contains no hazardous components in reportable quantities under current regulations.

Section 4. First-Aid Measures**Description of first-aid measures**

Inhalation • Move to fresh air. Seek medical attention if problems persist.
Skin • Wash with water and soap. This product is not skin irritating.
Eye • Flush eyes with water for at least 15 minutes. Seek medical attention if problems persist.
Ingestion • Rinse out mouth with water. Never give anything by mouth to unconscious person. Seek medical attention if problems persist.

Most important symptoms and effects, both acute and delayed

- No data available

Indication of any immediate medical attention and special treatment needed

- No data available

Section 5. Firefighting Measures**Extinguishing media**

Suitable extinguishing media • The product itself will not support combustion. In a sustained fire use an extinguisher appropriate for surrounding area.

Unsuitable extinguishing media • No data available

Special hazards arising from the substance or mixture

- No data available

Advice for firefighters

- Product itself does not burn. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing.

Environmental precautions

- Avoid run off to waterways and sewers

Methods and material for containment and cleaning up

Containment/Clean-up measures

- Clean-up with absorbent material (sand, sawdust, universal binders)
- Dispose of according to regulations

Reference to other sections

- No data available

Section 7. Handling and Storage**Precautions for safe handling**

Handling

- Handle and open container with care.
- Keep container tightly closed

Information about protection against explosion and fires

- Product is not flammable
- No special measures required

Condition for safe storage, including any incompatibilities

Technical measures and storage conditions

- No special requirements

Information about common storage area

- No special requirements

Additional storage information

- Protect from freezing

Section 8. Exposure Controls/Personal Protection**Control parameters**

Occupational Exposure Limit Values (valid only for aerosolized liquid or dried dust)

Aerosol of liquid

- Ceiling value of 100 mg/m³

Dried dust

- 1.6 mg/m³ as 8 hr TWA

Exposure Controls

Engineering measures/controls

- No data available

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear safety glasses

Hands

- Wear appropriate gloves

Skin/Body

- Lightweight protective clothing

General industrial hygiene considerations

- Wash hands before breaks and at the end of work

Environmental exposure controls

- No data available

Section 9. Physical and Chemical Properties

Appearance/Description	Milky white liquid		
Odor	Odorless	Odor Threshold	No data available
pH	9 - 10 @ 20°C	Specific Gravity	1.20 - 1.29
Melting Point/Range	No data available	Boiling Point/Range	100°C (212°F)
Water Solubility	Dispersible	Viscosity	< 20 mPa

Partition coefficient: n-octanol/water	No data available	Decomposition Temperature	No data available
Volatility			
Vapor Pressure	20 mbr @ 20°C	Vapor Density	No data available
Evaporation Rate	No data available	Explosive Properties	Product is not explosive
Flammability (solid, gas)	Product is not flammable		
Flash Point	No data available	UEL	No data available
Auto-ignition Temperature	No data available	LEL	No data available

Section 10. Stability and Reactivity

Reactivity	• No hazardous reactions known
Chemical Stability	• Stable at normal temperatures
Possibility of hazardous reactions	• No hazardous reactions known
Conditions to avoid	• No data available
Incompatible materials	• No data available
Hazardous decomposition products	• No dangerous decomposition products known

Section 11. Toxicological Information

Information on toxicological effects

Likely routes of exposure • Inhalation, skin contact, eye contact and ingestion

Acute/potential health effects

Inhalation • Inhalation of liquid vapor or dust from dried liquid may result in irritation of the upper respiratory tract (mouth, nose, throat)

Skin • Skin contact may produce itching and temporary mechanical irritation

Eyes • Eye contact may produce temporary mechanical irritation

Ingestion • May cause temporary mechanical irritation of digestive tract, nausea, vomiting and diarrhea.

Sensitizing effects

• No data available

Acute toxicity data

Sio2 solution • Oral Rat LD50: 15000 mg/kg

Delayed and immediate effects as well as chronic effects from short and long term exposure

• No data available

Carcinogenicity

• IARC, NTP or OSHA identifies no component of this product that is present at levels greater than or equal to 0.1% as a human carcinogen.

Section 12. Ecological Information

Ecotoxicity	• No data available
Persistence and degradability	• No data available
Bioaccumulative potential	• No data available
Mobility in soil	• No data available
Other information	• Do not discharge product unmonitored into environment

Section 13. Disposal Considerations

Waste treatment methods

Recommendation	• Dispose of in accordance with all local, state and federal regulations.
Contaminated packaging	• Dispose of in accordance with all local, state and federal regulations.
Other	• Waste is not hazardous as defined by RCRA (40 CFR)

Section 14. Transport Information**Land Transport (DOT)**

- | | |
|--------------------------|---|
| UN number | • Not applicable |
| UN proper shipping name | • Not applicable |
| Transport hazard classes | • Not applicable |
| Note | • Product is not dangerous according to regulations |

Marine Transport

- | | |
|--------------------------|---|
| UN number | • Not applicable |
| UN proper shipping name | • Not applicable |
| Transport hazard classes | • Not applicable |
| Marine pollutant | • No |
| Note | • Product is not dangerous according to regulations |

Air Transport

- | | |
|--------------------------|---|
| UN/ID number | • Not applicable |
| UN proper shipping name | • Not applicable |
| Transport hazard classes | • Not applicable |
| Note | • Product is not dangerous according to regulations |

- | | |
|--------------|---|
| Other Notes: | • Protect from freezing during transport to avoid damage to product |
|--------------|---|

Section 15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

- | | |
|--|--|
| OSHA Hazardous Communications Standard (29CFR 1910.1200) | • This product is not considered hazardous |
| SARA Hazard Categories | • No data available |
| TSCA | • This product contains materials listed in the TSCA inventory or otherwise complies with TSCA requirements. |
| CERCLA | • No reportable ingredients |
| US - SARA - Section 313 | • No reportable ingredients |
| California Prop 65 | • This product contains no chemicals known by the state of California to cause cancer or birth defects. |

Section 16. Other Information

- | | |
|--------------------|--------------|
| Last Revision Date | • 08/12/2024 |
| Preparation Date | • 03/01/2015 |

Disclaimer

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