



SAFETY DATA SHEET

Part No. N4840 Silicone Spray

September 23, 2015

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Silicone Spray
(N4840)

SECTION 1 - IDENTIFICATION

Product Identifier

Product Number(s) N4840
Product Name Silicone Spray

Other Means of Identification None

Recommended Use and Restrictions on Use

Recommended Use Lubricant
Restrictions on Use None Identified

24 hr Emergency
Phone Number

800-424-9300
(Chemtrec)

DISTRIBUTOR DETAILS

Name National Refrigeration Products
Address 985 Wheeler Way
Langhorne PA 19047
Phone Number 800-352-6951
Fax Number 215-638-8909

SECTION 2 - IDENTIFICATION

Hazard Classification

HEALTH HAZARDS				PHYSICAL HAZARDS				
Acute Tox. Oral		Mutagenicity		Unstable Explosive		Refrigerated Liq. Gas	Pyrophoric Solid	
Acute Tox. Skin		Carcinogenicity		Explosive		Flammable Liquid	Emits Flammable Gas	
Acute Tox. Inhalation		Tox. to Reproduction		Flammable Gas		Flammable Solid	Oxidizing Liquid	
Skin Irritation	2	STOT SE	3	Aerosol	1	Self-Reactive Sub.	Oxidizing Solid	
Eye Irritation	2	STOT RE		Oxidizing Gas		Pyrophoric Liquid	Organic Peroxide	
Resp. Sensitization		Aspiration Hazard	1	Gas Under Pressure	X	Self-Heating Substance	Corrosive to Metal	
Skin Sensitization				ENVIRONMENTAL HAZARDS (GHS Rev 3 Only)				
				Aquatic Acute	1	Aquatic Chronic	1	Ozone Depleting

Signal Word

Danger

Hazard Pictograms



Hazard Statements

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin and serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.

Precautionary Statements

General Keep out of reach of children.

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. Avoid release to the environment.



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Response	<i>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a POISON CENTER or doctor if you feel unwell. Collect spillage.</i>
Storage	<i>Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.</i>
Disposal	<i>Dispose of contents/container in accordance with local regulations.</i>
Hazards Not Otherwise Classified	<i>None identified.</i>
Unknown Acute Toxicity	<i>0 % by wt</i>

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	% WT RANGE*
1	Liquefied Petroleum Gas	0068476-86-8	30 - 60
2	Acetone	0000067-64-1	15 - 40
3	N-Heptane	0000142-82-5	10 - 30
4	Dimethicone	0063148-62-9	5 - 10

* Exact percentages of composition withheld as trade secret

SECTION 4 - FIRST AID MEASURES

Description of First-Aid Measures

General	<i>If exposed or concerned seek medical advice/attention.</i>
Eye Contact	<i>Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.</i>
Skin Contact	<i>Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.</i>
Ingestion	<i>Do not induce vomiting! Immediately have the victim drink plenty of water. Do not give milk or digestible oils. Keep airways free. Contact a physician. Never give anything by mouth if victim is rapidly losing consciousness, unconscious, or convulsing.</i>
Inhalation	<i>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.</i>
First-Aid Responder Protection	<i>Wear adequate personal protective equipment based on the nature and severity of the emergency.</i>

Most Important Symptoms and Effects, Both Acute and Delayed

Eye Contact	<i>Liquid contact may cause pain along with moderate eye irritation.</i>
Skin Contact	<i>Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or flaking of skin. May cause more severe response if confined to skin.</i>
Ingestion	<i>Due to being an aerosol, the product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, throat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspiration of vomit into the lungs may cause inflammation, and possible chemical pneumonitis, bronchopneumonia, or pulmonary edema.</i>
Inhalation	<i>Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion or death. Irritation of the mucous membranes, coughing, and dyspnea are also possible.</i>

Indication of Immediate Medical Attention and Special Treatment

Notes to Physician	<i>Treat symptomatically.</i>
Specific Treatments/Antidotes	<i>No information available.</i>
Immediate Medical Attention	<i>No information available.</i>

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media	<i>Water, CO2, dry chemical, or universal aqueous film forming foam</i>
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Unsuitable Extinguishing Media *Water jet*

Specific Hazards Arising from the Chemical or Mixture

Decomposition Products *Oxides of carbon (CO, CO₂), smoke, and/or vapors*

Hazards from the Product *CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE. In a fire or if heated, a pressure increase will occur which may result in the container bursting. Vapours heavier than air may spread along the ground and travel to an ignition source.*

Advice for Firefighters

Protective Actions *Use water spray to cool fire exposed containers as contents may rupture violently from heat developed pressure.*

Protective Equipment *As with any fire wear SCBA pressure-demand, MSHA/NIOSH approved, and full protective gear.*

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel *No action should be taken by non-emergency personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.*

For Emergency Responders *Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel.*

Environmental Precautions

Precautions *Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.*

Methods and Materials for Containment and Cleaning Up

Containment Procedures *Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents. DO NOT use combustible material such as sawdust.*

Cleanup Procedures *Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.*

Other Information *Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal.*

Prohibited Materials *Combustible absorbent material such as sawdust, use of equipment that may cause sparking.*

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

General Handling Precautions *KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation. Wash hands after use.*

Hygiene Recommendations *Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.*

Conditions for Safe Storage Including Any Incompatibilities

Storage Requirements *Storage of individual cans should be done in an area below 50 °C (122 °F), and away from heat sources. Ensure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended. This product is classified as a Level 3 Aerosol.*

Incompatibilities *Segregate storage away from materials indicated in Section 10*



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

ID	OSHA			NIOSH			ACGIH			AIHA WEEL	
	PEL	STEL	CEILING	REL	STEL	CEILING	TLV	STEL	CEILING		
1	1000 ppm	-	-	2000 ppm	1000 ppm	-	-	1000 ppm	-	-	-
2	1000 ppm	-	-	2500 ppm	250 ppm	-	-	500 ppm	750 ppm	-	-
3	500 ppm	-	-	750 ppm	85 ppm	-	440 ppm	400 ppm	500 ppm	-	-

Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
2	Acetone in urine	End of shift	50 mg/L	Ns

Other Control Parameters Not Available

Appropriate Engineering Control

Engineering Measures Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.

Individual Protection Measures

Hygiene Considerations Avoid breathing vapors and contact with the skin and eyes. Always replace overcap when not in use. Keep out the reach of children. Wash hands after use.

Thermal Protection This product does not present a thermal hazard.

Respiratory Protection An approved respirator with organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. If respirators are needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.

Skin Protection For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.

Eye/Face Protection Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.

Other Protective Equipment Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Properties

Boiling Point	> 56.1 °C (133.0 °F)	Melting / Freezing Point	>-95.3 °C (-139.6 °F)
Flash Point, Liquid	> -17.0 °C (1.4 °F)	Flash Point, Propellant	-82.8 °C (-117.0 °F)
Explosive Limits	1.05% - 13.00%	Autoignition Temperature, Liquid	204.0 °C (399.2 °F)
Flammability	Extremely Flammable Aerosol	Relative Density (H2O = 1)	0.660 g/cc
Molecular Weight	Not Available	Weight	5.510 lbs/gal
Vapor Pressure	45.98 psig	pH	Not Available
Vapor Density	3.500 g/cc Maximum	Evaporation Rate	Not Available
Form	Pressurized Product	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion (ΔHc)	15,327.929 BTU/lb
Odor	Solvent	Water Solubility	Not Available
Appearance / Color	Water white liquid	Decomposition Temperature	Not Available

Air Quality Properties

Percent Volatile	92% Wt (95% Vol) Max	VOC Regulatory	4.499 lbs/gal (539.044 g/L)
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Percent VOC	60% Wt (68% Vol) Max	VOC Actual	3.307 lbs/gal (396.174 g/L)
Percent HAP	None	HAP Content	None
Solids/Non Volatile Content	8% Wt (6% Vol) Max	Maximum Incremental Reactivity	0.828 g O3/g
Global Warming Potential	3.760		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	<i>No specific test data related to reactivity is available for this product or its ingredients.</i>
Chemical Stability	<i>This product is stable.</i>
Hazardous Reactions	<i>Under normal conditions of storage and use, hazardous reactions are not expected to occur.</i>
Conditions to Avoid	<i>Keep away from heat, sparks, flame, and red hot metal.</i>
Material Incompatibility	<i>Acids, Activated Carbon, Bases, Chlorine Dioxide, Hexachloromelamine, Hydrogen Peroxide, Isoprene, Strong Oxidizing Agents, Strong Reducing Agents, Sulfur Dichloride, Trichloromelamine</i>
Decomposition Productions	<i>Oxides of Carbon, Acetic Acid, Formaldehyde fumes, Hydrogen Peroxide, Methanol may be formed depending on fire conditions.</i>

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (mixture)

Oral LD ₅₀	8188 mg/kg
Dermal LD ₅₀	16667 mg/kg
Inhalation LC ₅₀	92 mg/L 4-hour

Acute Toxicity on Ingredients

ID	ORAL LD50		DERMAL LD50		INHALATION LC50		
	VALUE	SPECIES	VALUE	SPECIES	VALUE	TIME	SPECIES
1	–	–	–	–	658 mg/L	4h	rat
2	5800 mg/kg	rat	20000 mg/kg	rabbit	76 mg/m3	4h	rat
3	>15000 mg/kg	rat	–	–	103 g/m3	4h	rat
4	>40000 mg/kg	rat	>10000 mg/kg	rabbit	>535 mg/L	4h	rat

Health Hazard Classification

Skin Corrosion / Irritation	<i>Category 2</i>
Eye Damage / Irritation	<i>Category 2</i>
Respiratory Irritation	<i>Classification criteria not met</i>
Respiratory / Skin Sensitization	<i>Classification criteria not met</i>
Germ Cell Mutagenicity	<i>Classification criteria not met</i>
Reproductive Toxicity	<i>Classification criteria not met</i>
STOT - Single Exposure	<i>Category 2</i>
STOT - Repeated Exposure	<i>Classification criteria not met</i>
Aspiration Hazard	<i>Category 1</i>

Carcinogen Data

ID	Calif Prop-65	OSHA	NIOSH	ACGIH	NTP	IARC
	No	No	No	No	No	No

Information on the Likely Routes of Exposure

Routes of Exposure	<i>Skin contact, skin absorption, eye contact, inhalation</i>
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Information on Physical, Chemical and Toxicological Effects

Symptoms of Exposure *Asphyxia, Central Nervous System Depression, Chemical Pneumonitis, Dermatitis, Dizziness, Drowsiness, Stupor, Throat Irritation*

Delayed and Immediate Effects and also Chronic Effects from Short and Long-Term Exposure

Delayed Effects *No known delayed effects.*

Immediate Effects *No known immediate effects.*

Chronic Effects *Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome"). Intentional misuse by concentrating and inhaling this product may be harmful or fatal.*

Medical Conditions Aggravated *May aggravate personnel with pre-existing disorders associated with any of the Target Organs.*

Target Organs *Central Nervous System, Eyes, Respiratory System, Skin*

SECTION 12 - ECOLOGICAL INFORMATION

Acute Aquatic Toxicity

ID	FISH			INVERTEBRATES			AQUATIC PLANTS			MICROORGANISMS		
	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD
2	LC50	5549 mg/L	96h	EC50	6100 mg/L	48h	IC5	530 mg/L	8d	EC5	1700 mg/L	16h
3	EC50	220 mg/L	96h	LC50	>10 mg/L	24h	EC50	1.5 mg/L	8h	-	-	-

Ecological Data

ID	PERSISTENCE AND DEGRADABILITY				BIOACCUMULATIVE POTENTIAL		MOBILITY
	PERSISTENCE	BOD	COD	ThOD	Pow / Kow	BCF	Koc
2	90.9% / 28 days	1.85 mg/g / 5d	1.92 mg/L	2.21 mg/L	-0.24 log Pow	0.69 BCF	1.26 log Koc
3	-	-	-	-	4.66 log Pow	3.11 log BCF	2.44 log Koc

Other Adverse Effects *No additional information available.*

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal

Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.

Waste Disposal of Packaging

An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

Landfill Precautions

Not available

Incineration Precautions

**** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE ****



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SECTION 14 - TRANSPORTATION INFORMATION

Transportation Information

UN Number
Proper Shipping Name
Hazard Class(es)
Packaging Group
Marine Pollutant
Hazard Label(s)

Ground Transportation (DOT)

UN1950
Aerosols, Limited Quantity
2.1
—
No



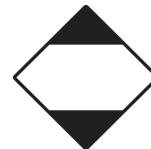
Air Transportation (IATA)

UN1950
Aerosols, Flammable, Limited Quantity
2.1
—
No



Ocean Transportation (IMDG)

UN1950
Aerosols, Limited Quantity
2.1
—
No



SECTION 15 - REGULATORY INFORMATION

Federal Regulations

ID	TSCA LISTED	SARA 302 EHS TPQ	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT HAP	CLEAN AIR ACT SOCM I	CLEAN WATER ACT
1	Yes	—	—	—	—	Yes	—	—	—	—	—	—	—
2	Yes	—	U002	5000	—	Yes	—	Yes	—	—	—	—	—
3	Yes	—	—	—	—	Yes	—	Yes	—	—	—	—	—
4	Yes	—	—	—	—	—	—	—	—	—	—	—	—

State Regulations

ID	CA P-65	DE RQ	MA RTK CODES	ME TYPE	ME RQ	RTK	MN AIR	WATER	NJ RTK	AIR	NY LAND	ACUTE	PA LISTED	WA PEL TWA	WI TABLE	WV TAP
2	—	5000	2,4,5,6 F8 F9	—	20000	AON	—	—	—	5000	1	—	Yes-E	750 ppm	—	—
3	—	—	2,4,5,6	—	—	ANO	—	—	—	—	—	—	Yes	400 ppm	—	—

SECTION 16 - OTHER INFORMATION

SDS Revision History

Revision 1, 09/23/2015, Original in GHS Version 3 Format.

SDS Compliance

This SDS complies with the below listed regulations only. For SDS that comply with other countries, please contact our Regulatory Department at msds@chem-pak.com

OSHA Hazard Communication Standard (HCS 2012) 29 CFR 1910.1200

Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Revision 3

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.