SAFETY DATA SHEET

Revision Date: 7/27/16

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **Solvent Free Silicone Coatings**
PRODUCT GRADE/TYPE : SRC 720, SRC 740, SRC 750
SDS NUMBER : J253-Sil -G-017
PRODUCT USE : Solvent Free Silicone Coatings
MANUFACTURER : National Coatings Corporation
1201 Calle Suerte
Camarillo, CA 93012
www.nationalcoatings.com
PRODUCT INFORMATION : 1-800-423-9557
CHEMTREC NORTH AMERICA : 1-800-424-9300
CHEMTREC INTERNATIONAL : 703-527-3887

SECTION II – HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

SKIN CORROSION/IRRITATION- CATEGORY 2
Eye Damage/Irritation- category 2A
Reproduction Toxicity-Category 3
Specific target organ toxicity (single exposure)-Category 3

Hazardous to the aquatic environment, Chronic, Category 4

GHS LABEL:

Hazard Category	Signal Word	Hazard Statement	Pictogram
Skin Corrosion/Irritation Category 2	**Warning**	**H315-Causes skin irritation**	
Eye Corrosion/Irritation Category 2A	**Warning**	**H319-Causes serious eye irritation**	
Reproductive Toxicity, Category 3	**None**	**H362- May cause harm to breast-fed children**	**None**
Hazardous to aquatic environment, Chronic Category 4	**None**	**H413- May cause long lasting harmful effects to aquatic life**	**None**

GHS Precaution Phrases:

Hazard Category	Prevention	Response	Storage	Disposal
Skin Corrosion/Irritation Category 2	**P264** **P280**	**P302+P352** **P321** **P332+P313** **P362**		
Eye Corrosion/Irritation Category 2A	P264 **P280**	**P305+P351+P338** P337+ P313		
Reproductive Toxicity, Category 3	**P201** **P260**	P308+P313		

	P263 **P264** **P270**			
Hazardous to aquatic environment, Chronic Category 4	**P273**			**P501**

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Components	**CAS No.**	**Weight %**	**Hazard Class**	**GHS Hazard Statement**	**GHS Symbol # (Pictograms)**	**Pictogram**
Titanium dioxide (unbound only)	13463-67-7	5-15	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
Nepheline Syenite	37244-96-5	15-30	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
Synthetic amorphous, pyrogenic silica	112945-52-5	1-3	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
2-Butanone,O,O',O"-(Methylsilylidyne)Trioxime	22984-54-9	2-7	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
2-Butanone,O,O',O"-silanetetratylteraoxime	34206-40-1	<1	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
Octamethylcyclotetrasiloxane	556-67-2	5-15	Reproduction, Cat 3 Aquatic, Chronic, Cat 4	H362 H413	GHS08 GHS09	None None

GHS Pictograms	***Hazard Statement***
H315	*Causes skin irritation*
H319	*Causes serious eye irritation*
H362	*May cause harm to breast-fed children*
H413	*May cause long lasting effects to aquatic life*

P Statements:
Preventive:

P201: Obtain special instructions before use.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P263: Avoid contact during pregnancy/while nursing
P264: Wash … thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]

Response precautionary statements:

P301: IF SWALLOWED:
P321: Specific treatment (see … on this label).
P362: Take off contaminated clothing. [As modified by IV ATP]
P302+P352: If on skin: Wash with plenty of soap and water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P308+P313: IF exposed: Call a POISON CENTER or doctor/physician.
P332+P313: : If skin irritation occurs: Get medical advice/attention.
P337+P313: : If eye irritation persists get medical advice/attention.

Storage precautionary statements

P405: Store locked up.
P403+233: Store in a well ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of content/container…in accordance with local/regional/national/ international regulation (to be specified)

SECTION IV – FIRST AID MEASURES

Eye Contact: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin Contact: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention.

Inhalation: Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Get medical attention immediately.

Ingestion : If ingested, do not induce vomiting unless directed to do so by a medical personnel. Get medical attention.

SECTION V – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Use dry chemical, foam or carbon dioxide to extinguish fire.

Unusual Fire and Explosion Hazards: This material has been tested to ASTM D-4206 standard and found not to sustain combustion.

Special protective action for fire-fighters: Water should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and flush them away from sources of ignition. Do not flush down sewers or other drainage systems. Exposed fire-fighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.
Keep people away from and upwind of spill/leak.

Material can create slippery conditions.

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods of Cleaning up: Contain spills immediately with inert materials (e.g. sand, warth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION VII – HANDLING AND STORAGE

Precautions for safe handling:
Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product**.**
Conditions for safe storage : Storage : Keep containers tightly closed in a dry and cool place. ventilated place.

Storage Period: 12 months

Keep container closed when not in use. Protect from freezing.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	CAS #	ACGIH TWA	OSHA TWA	WEEL
Titanium dioxide (unbound only)	13463-67-7	**10 mg/m3**	**10 mg/m3**	**10 mg/m3**
Nepheline Syenite	37244-96-5	**Not Listed**	**Not Listed**	**Not Listed**
Synthetic amorphous, pyrogenic silica	112945-52-5	**Not Listed**	**Not Listed**	**Not Listed**
2-Butanone,O,O',O"-(Methylsilylidyne)Trioxime	22984-54-9	**Not Listed**	**Not Listed**	**Not Listed**
2-Butanone,O,O',O"-silanetetratylteraoxime	34206-40-1	**Not Listed**	**Not Listed**	**Not Listed**
Octamethylcyclotetrasiloxane	556-67-2	**Not Listed**	**Not Listed**	**Not Listed**

Engineering Controls: : Mechanical local exhaust ventilation at point of containment release.
Protective Measures : Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.
Eye/face Protection : Safety glasses with side-shields.
Skin Protection : Impervious (Neoprene gloves)

Respiratory Protection : Use only with ventilation to keep levels below exposure guidelines reported in this document. If not sure, and/or not able to monitor, use Stae or federally approved supplied air-respirator.Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous liquid in various colors including white, tan, light gray, and dark gray
Odour:	Slight odor
Odour threshold:	Not available
pH:	7.4-7.7

Melting point/freezing point:	0ºC (32ºF) similar to water
Boiling Point/boiling range:	100ºC (212ºF) similar to water
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Evaporation Rate:	slower than ether
Flammability:	Not available
Upper/Lower Flammability or explosive limits:	Not available
Vapor Pressure:	Not available
Vapor density	Not available
Relative density:	Not available
Solubility: in water	Not available
Partition Coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not determined
VOC Content g/l:	Not available

Note: The above data are typical values and must not be construed as a specification.

SECTION X – STABILITY AND REACTIVITY

Reactivity: Non-reactive

Chemical Stability: Stable

Possibility of hazardous reactions: None known.

Conditions/Materials to avoid: No known materials to avoid

Incompatible Materials: Strong oxidizing agents.

Hazardous decomposition: By Thermal decomposition: carbon monoxide, carbon dioxide, Oxides of nitrogen (NOx), other potentially toxic fumes, dense black smoke.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity:

Component	Acute Oral	Acute Dermal	Acute Inhalation
Titanium Dioxide	LD50 rat >5000 mg/kg	LD50:>5000 mg/kg (Rabbit)	LC50/4h/rat (dust/mist):>6.82 mg/l, 4 h (Rat)
Synthetic amorphous, pyrogenic silica	LD50 rat =3160 mg/kg **LD50 mouse=5500 mg/kg**		
Octamethylcyclotetrasiloxane	LD50 rat-1540mg/kg	LD50 rat >2400mg/kg	LC50 >12.7 mg/kg/4 hr

Acute Toxicity:

Skin/Eye Irritation:

Titanium Dioxide	Rabbit, Exposure Time, 24 h, Non-Irritating
Mixture	Not available

Mutagenicity:

Titanium Dioxide with/without)	Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation:
	Genetic Toxicity in Vivo: Drosophila SLRL test: negative (Drosophila melanogaster
Mixture	Not available

Carcinogenicity:

Titanium dioxide (Ti-Pure, DuPont)	Rat, Male/Female, inhalation-According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Based upon all study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experience in the workplace. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints.'
	From occupational sources) (Group 1-Carcinogenic to humans)
Mixture	Not available

Sensitization:

Titanium dioxide	Dermal: non-sensitizer (Guinea pig, Maximiztion Test), non-sensitizer (Human, Patch Test) Repeated Dose toxicity: 28 days, Inhalation: NOAEL: 35mg/m3, (Rat Short term-not possible; long term-yes; products of degradation are less toxic than the product Itself.

Reproductive toxicity: Octamethylcyclotetrasiloxane is listed by the European Chemical Commission as a reproductive hazard causing harmful effects to fertility or the unborn child.

Other Toxicological Information:

*Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints.'

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity:

Titanium dioxide	Aquatic Toxicity: 96 hr LC50: Fathead minnow>1,000mg/l; LC50: > 1000 mg/l (Golden Orfe (Leuciscus idus), 48 hours) ; Acute Toxicity to Aquatic invertebrates: EC50> 3mg/l (Water Flea (Daphnia Magna)) Toxicity to Microorganisms : EC50> 10,000 mg/l, (Pseudomas fluorescens, 24 h)

No specific data is available for this product on environmental stability, effect on plants or animals nor on aquatic life. However, release of this product may have long term effect on the aquatic environment.
Specific Component Data:
Octamethycyclotetrasiloxane (556-67-2) Test and Species conditions:
96 hr LC50 Brachydanio rerio >500 mg/l
96 hr LC50 Lepomis macroshirus >1000 mg/l
24 Hr Daphnia magna 25.2 mg/l

Persistence and Degradability, Bioaccumulative Potential, Mobility in Soil: Not available for other components and mixtures in the products listed

SECTION XIII – DISPOSAL INFORMATION

Environmental Precautions:

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Waste Disposal Method:
Waste disposal should be in accordance with existing federal, state and local environmental laws.

Empty Container Precautions:
Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION XIV – TRANSPORT INFORMATION

US DOT; IATA; IMO; ADR:

This product is classified as Dangerous Good as defined by 49 CFR 172.101 by the U.S. Department of Transportation.

Proper shipping Name : Non-regulated when shipped ground or rail within the U. S.A.
UN Number : Not applicable
Transport Hazard Class : None
Packing Group : None
Land Transport (DOT) : Non-Regulated

Sea Transport (IMDG) : This product is classified as Dangerous Goods by the International Maritime Organization.

Air Transport (ICAO/IATA) : Flammable Liquid, n.o.s; Class 3 Flammable, UN1993; PGIII: DOT Label-Flammable class3

Special Precautions : No data available

SECTION XV – REGULATORY INFORMATION

Unites States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing requirement of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Reporting Requirements: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: NONE

SARA 311/312:
Acute Health: Yes Chronic Health: Yes Fire : Yes Reactivity: No

CERCLA Information (40CFR302.4): SARA HAZARD CATEGORY:
This product has been reviewed according to the EPA 'Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
NONE KNOWN

U.S. SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4540 kg) may apply per 40CFR 370.20.

Workplace Classification:
OSHA : This product is considered not hazardous under OSHA Hazard Communication Standard (29CFR 1910.1200).

Canadian Regulations :
Canadian DSL/NDSL Inventory Status: All of the components of this product are on the DSL inventory.
Canadian Environmental Protection Act (CEPA) Priorities Substances List: NONE
Canadian WHMIS Classification and Symbols: This product is categorized as a Class B Division 3 Combustible Liquid, and Class D Division 2B Materials causing other toxic effects, as per the controlled Product Regulations.

European Economic Community Information:
All of the components listed in Section II of this SDS are not classified in the Annex 1 of Directive 67/548/EEC nor listed in ESIS.

Proposition 65 : This product contains a chemical known to cause cancer or reproductive toxicity:

Component	CAS #
Titanium dioxide (airborne, unbound particles of respirable size)	**(none), several substances for single listing**

Other information: All of the components of this product are listed or exempt from listing of the Chemical Inventories of the following countries: Australia (AICS), Japan (MITI and ENCS), Korea (ECL), Philippines (PICCS) an Swiss Giftliste List of Toxic Substances.

SECTION XVI –

HMIS Rating:

Legend:

Acronym	Meaning
ACGIH	American Conference of Governmental Hygienists
OSHA	Occupational Safety Health Administration
SARA	Superfund Amendment Reauthorization Act
TRI	Toxic Release Inventory
GHS	Globally Harmonized System (of Classification and Labeling of Chemicals)
DOT	Department of Transportation
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association

The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The information relates only to the specific material designated and may not be valid for such material used in combination with or any other material in any process, unless specified in the test.

Version #: GHS-017
Revision Date: 7/27/16
Supersedes Last Revision: 11/30/15
This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally harmonized System of Classification and Labeling of Chemicals.