

# SAFETY DATA SHEET

#### 1. Identification

Product identifier	Silaramic® Brake System Grease
Other means of identification	
Product code	05361, 05362, 05363
Recommended use	Brake system grease
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	er/Distributor information
Manufactured or sold by:	
Company name	CRC Industries, Inc.
Address	885 Louis Dr.
	Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
Technical	800-521-3168
Assistance	
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC)	703-527-3887 (International)
Website	www.crcindustries.com

#### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Warning	
<b>.</b>		
		prolonged or repeated exposure. Harmful to aquatic
	life. Harmful to aquatic life with long lasting eff	ects.
Precautionary statement		
Prevention	Do not breathe dust/fume/vapors. Avoid release to the environment.	
Response	Get medical advice/attention if you feel unwell.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	

#### 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Polydimethylsiloxane		63148-62-9	60 - 70

Chemical name	Common name and synonyms	CAS number	%
Ethoxylated nonylphenol		9016-45-9	1 - 3
Benzenamine, N-phenyl-, Reaction Products With		68411-46-1	< 1

2,4,4-trimethylpentene

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Call a physician if symptoms develop or persist.
Skin contact	Wash off with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	May cause eye irritation. Prolonged or repeated skin contact may cause irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. If ingestion of a large amount does occur, call a poison control center immediately.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media	Dry chemical powder. Carbon dioxide (CO2). Foam. Water fog. Water spray.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	Cool containers exposed to heat with water spray and remove container, if no risk is involved.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
The product is immiscible with water and will spread on the water surface. Prevent product from entering drains.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

#### 7. Handling and storage

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Precautions for safe handling	Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Use care in handling/storage. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/pers	onal protection
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures,	such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	Wear protective gloves such as: Neoprene. Nitrile.
Other	Wear suitable protective clothing.
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Grease.
Color	Gray.
Odor	Mild.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	550 °F (287.8 °C) Cleveland Open Cup
Evaporation rate	Very slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	Not available.

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Oxidizing agents. Acids.
Hazardous decomposition products	Carbon oxides. Halogenated materials. Metal oxides.

#### 11. Toxicological information

Information on likely routes of exposure		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Prolonged skin contact may cause temporary irritation.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological of	facto	

#### Information on toxicological effects

Acute toxicity		
Product	Species	Test Results
Silaramic® Brake System Grease		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2953 mg/kg estimated
Oral		
LD50	Rat	98750 mg/kg
* Estimates for product may b	e based on additional component data	a not shown.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure: Liver.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May cause damage to organs throug	gh prolonged or repeated exposure.
12. Ecological information	ı	

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Product		Species	Test Results	
Silaramic® Brake System G	irease			
Aquatic				
Crustacea	EC50	Daphnia	553.7621 mg/l, 48 hours estimated	
Acute				
Fish	LC50	Fish	15245.8662 ppm, 96 hours estimated	
Components		Species	Test Results	
Benzenamine, N-phenyl-, R	eaction Produ	icts With 2,4,4-trimethylpentene (CAS 68411	-46-1)	
Aquatic				
Acute				
Crustacea	EC50	Daphnia magna	51 mg/l, 48 hours	
Fish	LC50	Zebra danio (Danio rerio)	> 71 ppm, 96 hours	
Ethoxylated nonylphenol (C	AS 9016-45-9	)		
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	12.2 mg/l, 48 hours	
Acute				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4700 μg/l, 96 hours	
Polydimethylsiloxane (CAS	63148-62-9)			
Aquatic				
Fish	LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours	
* Estimates for product may	be based on	additional component data not shown.		
sistence and degradability	No data is	available on the degradability of this produc	st.	
accumulative potential	No data a	No data available.		
bility in soil	No data a	No data available.		
er adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
. Disposal considerati	ons			
posal of waste from idues / unused products	containers	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.		
ardaua waata aada	•	Not regulated		

Hazardous waste code	Not regulated.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

# IMDG

Not regulated as dangerous goods.

# 15. Regulatory information

US federal regulations	Standard, 29 CFR 1910	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.	
TSCA Section 12(b) Exp	ort Notification (40 CFR 707	7, Subpt. D)	
Ethoxylated nonylphe TSCA Chemical Action I	enol (CAS 9016-45-9) Plans, Chemicals of Concer	1.0 % One-Time Export Notification only.	
Ethoxylated nonylphe	enol (CAS 9016-45-9)	Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan	

US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)
Not listed. SARA 304 Emergency released	se notification
Not regulated. US EPCRA (SARA Title III) S	ection 313 - Toxic Chemical: Listed substance
Not listed. CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Ethoxylated nonylphenol CERCLA Hazardous Substa	(CAS 9016-45-9) Listed.
Not listed.	
	g in the loss of any ingredient at or above its RQ require immediate notification to the National 24-8802) and to your Local Emergency Planning Committee.
Not regulated.	112 Hazardous Air Pollutants (HAPs) List
Clean Air Act (CAA) Section Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.
Superfund Amendments and Section 311/312	d Reauthorization Act of 1986 (SARA) Immediate Hazard - No
Hazard categories	Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	Νο
US state regulations	
(a))	nemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
	(CAS 9016-45-9) Ibstances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed. US. New Jersev Worker and	Community Right-to-Know Act
Ethoxylated nonylphenol US. Massachusetts RTK - Su	(CAS 9016-45-9)
None.	nd Community Right-to-Know Law
Ethoxylated nonylphenol	
US. Rhode Island RTK Ethoxylated nonylphenol	(CAS 9016-45-9)
US. California Proposition 6	
California Safe Drinking V	Vater and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain sted as carcinogens or reproductive toxins.
Volatile organic compounds (VC EPA	0C) regulations
VOC content (40 CFR 51.100(s))	Not determined
Consumer products (40 CFR 59, Subpt. C)	Not regulated
State	
Consumer products	Not regulated
VOC content (CA)	0 %
VOC content (OTC)	0 %

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	05-12-2015
Prepared by	Allison Cho
Version #	01
Further information	Not available.
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 1 Personal protection: B
NFPA ratings	Health: 1 Flammability: 1 Instability: 1
NFPA ratings	

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