

The following SDS references the product below:

DriveGrip®

Vendor Item Number: VT470

Manufactured By:

ND Industries, Inc

Distributed by Kimball Midwest with the KM product-
identification number:

80-315



Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2015

Reviewed on 05/22/2015

1 Identification

- Product identifier

- **Trade name:** DriveGrip®

- **Synonyms:** 470 DriveGrip® Anti Cam-Out Fluid

- **Part number:** VT470

- **Relevant identified uses of the substance or mixture** Assembly aid / prevention of fastener slippage

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ND Industries, Inc
1000 North Crooks Road
Clawson, MI 48017
USA
Telephone: +1-248-288-0000
Email: info@ndindustries.com
Website: www.ndindustries.com

- **Information department:** Product safety department

- Emergency telephone number:

United States: 1-800-424-9300
International: +1-703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture** The product is not classified according to the Globally Harmonized System (GHS).

- Label elements

- **GHS label elements** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- Classification system:

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- Other hazards

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

409-21-2	silicon carbide	20-30%
	Thickening agent	1-5%
	Intermediate copolymer	1-5%

4 First-aid measures

- Description of first aid measures

- **General information:** No special measures required.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult doctor.

- Information for doctor:

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 2)

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(Contd. of page 1)

- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
 - **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose of the collected material according to regulations.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- Components with limit values that require monitoring at the workplace:

409-21-2 silicon carbide

PEL	Long-term value: 15* 5** mg/m ³ fibrous dust: *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 10* 3** mg/m ³ fibrous dust: 0.1 f/cc; nonfibrous: *inh., **resp.

- **Additional information:** The lists that were valid during the creation were used as basis.

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling.

- **Body protection:** Protective work clothing

(Contd. on page 3)

Safety Data Sheet

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Trade name: DriveGrip®

(Contd. of page 2)

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

- **Form:** Viscous
- **Color:** Dark grey
- **Odor:** Characteristic
- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- Change in condition

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 100 °C (212 °F)

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- Ignition temperature:

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- Explosion limits:

- **Lower:** Not determined.
- **Upper:** Not determined.

- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

- **Density:** Not determined.

- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

- Solubility in / Miscibility with

- **Water:** Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- Viscosity:

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

- Solvent content:

- **Organic solvents:** 0.0 %
- **Water:** 64.9 %

- **Solids content:** 34.6 %

- **Other information** No further relevant information available.

10 Stability and reactivity

- Reactivity

- Chemical stability

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Possibility of hazardous reactions** No dangerous reactions known.

- **Conditions to avoid** No further relevant information available.

- **Incompatible materials:** No further relevant information available.

- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- **LD/LC50 values that are relevant for classification:**

Intermediate copolymer

Oral LD50 >5000 mg/kg (rat)

- Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

(Contd. on page 4)

Safety Data Sheet

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(Contd. of page 3)

- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|-----------------|
| - UN-Number | |
| - DOT, ADN, IMDG, IATA | not regulated |
| - UN proper shipping name | |
| - DOT, ADN, IMDG, IATA | not regulated |
| - Transport hazard class(es) | |
| - DOT, ADN, IMDG, IATA | |
| - Class | not regulated |
| - Packing group | |
| - DOT, IMDG, IATA | not regulated |
| - Environmental hazards: | |
| - Marine pollutant: | No |
| - Special precautions for user | Not applicable. |
| - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |
| - UN "Model Regulation": | - |

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

(Contd. on page 5)

Safety Data Sheet

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(Contd. of page 4)

- Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed.		
- TSCA (Toxic Substances Control Act):		
silicon carbide		
Deionized water		
- Proposition 65		
- Chemicals known to cause cancer:		
None of the ingredients is listed.		
- Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
- Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
- Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		
- Carcinogenic categories		
- EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
- TLV (Threshold Limit Value established by ACGIH)		
409-21-2	silicon carbide	A2
- NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs

- **Contact:** Safety, Health and Environmental Affairs

- **Date of preparation / last revision** 06/04/2015 / 3

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**

- **Disclaimer**

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