

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

## SECTION 1: Identification

### 1.1 Product identifier

Trade name **Cerakote P-109: Micro Slick**

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

Relevant identified uses **General use**

### 1.3 Details of the supplier of the safety data sheet

NIC Industries, Inc  
7050 6th St.  
White City Oregon 97503  
United States

Telephone: 866-774-7628  
e-mail: sds@nicindustries.com  
Website: www.nicindustries.com

### 1.4 Emergency telephone number

Emergency information service **1-800-633-8253 (USA & Canada) or 001-1-801-629-0667 (International)**

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## SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
A.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.6	Carcinogenicity	1A	Carc. 1A	H350
A.8R	Specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
A.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
B.6	Flammable liquid	2	Flam. Liq. 2	H225

For full text of abbreviations: see SECTION 16.

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

The most important adverse physicochemical, human health and environmental effects  
The product is combustible and can be ignited by potential ignition sources.

## 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word

**DANGER**

- Pictograms

GHS02, GHS05, GHS07,  
GHS08



- Hazard statements

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.

- Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

Thermoset Resin, n-butyl alcohol, Methyl Ethyl Ketone

## 2.3 Other hazards

of no significance

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%
Methyl Ethyl Ketone	CAS No 78-93-3	25 - < 50
n-butyl alcohol	CAS No 71-36-3	25 - < 50
Thermoset Resin	CAS No Trade Secret	25 - < 50

\*\* Trade Secret: In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200(i) and in accordance with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), the specific identity and/or exact percentage (concentration) of the composition has been withheld as a "Trade Secret."

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

### 4.3 Indication of any immediate medical attention and special treatment needed

None.

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Dry extinguishing powder, BC-powder, Carbon dioxide (CO<sub>2</sub>)

### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder.

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	n-butanol	TLV®	20							ACGIH® 2019
US	n-butyl alcohol	REL					50	150		NIOSH REL

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

## Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	n-butyl alcohol	PEL	100	300						29 CFR 1910.1000
US	n-butyl alcohol (1-butanol)	PEL (CA)					50	150		Cal/OSHA PEL
US	2-butanone	REL	200 (10 h)	590 (10 h)	300	885				NIOSH REL
US	2-butanone (methyl ethyl ketone)	PEL	200	590						29 CFR 1910.1000
US	methyl ethyl ketone	TLV®	200		300					ACGIH® 2019
US	methyl ethyl ketone (MEK) (2-butanone) (ethyl methyl ketone)	PEL (CA)	200	590	300	885				Cal/OSHA PEL

**Notation**

Ceiling-C  
STEL

ceiling value is a limit value above which exposure should not occur  
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

## Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	methyl ethyl ketone	methyl ethyl ketone		BEI®	2 mg/l	ACGIH® 2019

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

##### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance**

Physical state	Liquid
Color	Black
Odor	Characteristic

**Other safety parameters**

pH (value)	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	64.7 °C
Flash point	9.7 °C
Evaporation rate	Not determined
Flammability (solid, gas)	Not relevant (fluid)

**Explosive limits**

- Lower explosion limit (LEL)	2.5 vol%
- Upper explosion limit (UEL)	13.5 vol%

Vapor pressure	169.3 hPa at 25 °C
Density	Not determined
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Not determined
Auto-ignition temperature	455 °C (auto-ignition temperature (liquids and gases))
Viscosity	Not determined

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

Explosive properties	None
Oxidizing properties	None

## 9.2 Other information

Temperature class (USA, acc. to NEC 500)	T1 (maximum permissible surface temperature on the equipment: 450°C)
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidizers. Strong acids. Strong bases. Reducing agents.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if swallowed.

- Acute toxicity estimate (ATE)

Oral 1,675 mg/kg



# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
n-butyl alcohol	71-36-3	Oral	500 mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization**

Shall not be classified as a respiratory or skin sensitizer.

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	Classification	Number
Thermoset Resin	1	

Legend

1 Carcinogenic to humans

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity - single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Endocrine disrupting properties**

None of the ingredients are listed.

**12.7 Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

**14.1 UN number**

DOT	UN 1263
IMDG-Code	UN 1263
ICAO-TI	UN 1263

**14.2 UN proper shipping name**

DOT	Paint related material
IMDG-Code	PAINT RELATED MATERIAL
ICAO-TI	Paint related material

**14.3 Transport hazard class(es)**

DOT	3
IMDG-Code	3
ICAO-TI	3

**14.4 Packing group**

DOT	II
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# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

IMDG-Code II  
 ICAO-TI II

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations

**14.6 Special precautions for user**  
 There is no additional information.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
 The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information**

Particulars in the shipper's declaration UN1263, Paint related material, 3, II  
 Reportable quantity (RQ) 16,244 lbs (7,375 kg) (n-butyl alcohol) (Methyl Ethyl Ketone)  
 Danger label(s) 3



Special provisions (SP) 149, 367, B52, B131, IB2, T4, TP1, TP8, TP28  
 ERG No 128

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant -  
 Danger label(s) 3



Special provisions (SP) 163, 367  
 Excepted quantities (EQ) E2  
 Limited quantities (LQ) 5 L  
 EmS F-E, S-E  
 Stowage category B

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Danger label(s) 3



Special provisions (SP) A3, A72, A192  
 Excepted quantities (EQ) E2  
 Limited quantities (LQ) 1 L

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

#### Toxic Substance Control Act (TSCA)

All ingredients are listed

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
n-butyl alcohol	71-36-3		12/31/1986

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	Name acc. to inventory	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
Methyl Ethyl Ketone	2-Butanone MEK Methyl ethyl ketone	78-93-3		3 4	5000 (2270)
Methyl Ethyl Ketone	Unlisted Hazardous Wastes Characteristic of Toxicity:				
n-butyl alcohol	1-Butanol n-Butyl alcohol	71-36-3		4	5000 (2270)

#### Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

#### Clean Air Act

none of the ingredients are listed

#### Right to Know Hazardous Substance List

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Methyl Ethyl Ketone				1.0 %
n-butyl alcohol		LHS		1.0 %

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

**- Hazardous Substances List (MN-ERTK)**

Name of substance	References	Remarks
Methyl Ethyl Ketone	A, N, O	
n-butyl alcohol	A, O	skin
Thermoset Resin	A, O	

**Legend**

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
- skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

**- Hazardous Substance List (NJ-RTK)**

Name of substance	Remarks	Classifications
Methyl Ethyl Ketone		F3
n-butyl alcohol		F3
Thermoset Resin		CA MU TE F3

**Legend**

- CA Carcinogenic
- F3 Flammable - Third Degree
- MU Mutagenic
- TE Teratogenic

**- Hazardous Substance List (Chapter 323) (PA-RTK)**

Name of substance	Classification
Methyl Ethyl Ketone	E
n-butyl alcohol	E
Thermoset Resin	

**Legend**

- E Environmental hazard

**- Hazardous Substance List (RI-RTK)**

Name of substance	References
Methyl Ethyl Ketone	T, F
n-butyl alcohol	T, F
Thermoset Resin	T, F

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

Legend

F Flammability (NFPA®)  
 T Toxicity (ACGIH®)

**Industry or sector specific available guidance(s)**

**NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	3	Material that can be ignited under almost all ambient temperature conditions
Health	3	Material that, under emergency conditions, can cause serious or permanent injury
Instability	0	Material that is normally stable, even under fire conditions
Special hazard		

**National inventories**

Country	Inventory	Status
AU	AICS	All ingredients are listed
CA	DSL	All ingredients are listed
CN	IECSC	All ingredients are listed
EU	ECSI	All ingredients are listed
EU	REACH Reg.	All ingredients are listed
JP	CSCL-ENCS	All ingredients are listed
JP	ISHA-ENCS	Not all ingredients are listed
KR	KECI	All ingredients are listed
MX	INSQ	All ingredients are listed
NZ	NZIoC	All ingredients are listed
PH	PICCS	All ingredients are listed
TR	CICR	All ingredients are listed
TW	TCSI	All ingredients are listed
US	TSCA	All ingredients are listed

Legend

AICS Australian Inventory of Chemical Substances  
 CICR Chemical Inventory and Control Regulation  
 CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)  
 DSL Domestic Substances List (DSL)  
 ECSI EC Substance Inventory (EINECS, ELINCS, NLP)  
 IECSC Inventory of Existing Chemical Substances Produced or Imported in China  
 INSQ National Inventory of Chemical Substances  
 ISHA-ENCS Inventory of Existing and New Chemical Substances (ISHA-ENCS)  
 KECI Korea Existing Chemicals Inventory

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

**Legend**

NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DOT	Department of Transportation (USA)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
HHS	Higher hazard substance
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code

# Cerakote P-109: Micro Slick

Version number: 1.0

Date of compilation: 04/07/2021

Abbr.	Descriptions of used abbreviations
LHS	Lower hazard substance
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

## Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.