

Cerakote P-202: Arctic Black

Version number: 3.0

Revision: 03/28/2024

SECTION 1: Identification

1.1 Product identifier

Trade name **Cerakote P-202: Arctic Black**

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

Relevant identified uses Professional 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)

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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)

Hazard class and category code(s)

Classification acc. to GHS				
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	2A	Eye Irrit. 2A	H319
A.4S	Skin sensitization	1	Skin Sens. 1	H317
A.5	Germ cell mutagenicity	2	Muta. 2	H341
A.6	Carcinogenicity	1A	Carc. 1A	H350
A.8	Specific target organ toxicity - single exposure	2	STOT SE 2	H371
A.8R	Specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335

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Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
A.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
B.6	Flammable liquid	2	Flam. Liq. 2	H225

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. 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, GHS07, GHS08



- Hazard statements

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

- 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.
P260	Do not breathe 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.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.

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- Precautionary statements

- 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.
- P308+P311 If exposed or concerned: Call a poison center/doctor.
- P312 Call a poison center/doctor if you feel unwell.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing 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 formaldehyde ... %, Aromatic, Methanol, n-butanol

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%
Ethanol	CAS No 64-17-5	25 - < 50
n-butanol	CAS No 71-36-3	10 - < 25
Carbon black	CAS No 1333-86-4	5 - < 10
Methanol	CAS No 67-56-1	1 - < 5
Methyl Ethyl Ketone	CAS No 78-93-3	1 - < 5
Isopropanol	CAS No 67-63-0	1 - < 5
Thickening Agent	CAS No Trade Secret	1 - < 5

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Name of substance	Identifier	Wt%
Aromatic	CAS No Trade Secret	1 - < 5
formaldehyde ... %	CAS No 50-00-0	0.1 - < 1

Remarks

** 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.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Dry extinguishing powder, BC-powder, Carbon dioxide (CO₂)

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 (CO₂)

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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.

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.

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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 substance	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	Aromatic	PEL (CA)	5	19						Cal/OSHA PEL
US	Aromatic	REL	5 (10 h)	19 (10 h)			15.6 (15 min)	60 (15 min)		NIOSH REL
US	Aromatic	PEL	5	19						29 CFR 1910.1000
US	Aromatic	TLV®	5						H	ACGIH® 2024
US	Carbon black	PEL (CA)		3.5						Cal/OSHA PEL
US	Carbon black	PEL		3.5						29 CFR 1910.1000
US	Carbon black	REL		3.5 (10 h)					appx-A, appx-C	NIOSH REL
US	Carbon black	TLV®		3					i	ACGIH® 2024

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Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of substance	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	Carbon black	REL		0.1 (10 h)					PAHs, appx-A, appx-C	NIOSH REL
US	Thickening Agent	PEL (CA)	1						+asb, fib/cm ³	Cal/OSHA PEL
US	Thickening Agent	TLV®		0.1					fib/cm ³ , +asb, CA-10	ACGIH® 2024
US	Thickening Agent	PEL		0.1		1 (30 min)			no_asb, fib/ml	29 CFR 1910.1000
US	Thickening Agent	PEL (CA)		2					no_asb, r, less1silica	Cal/OSHA PEL
US	Thickening Agent	PEL	706						partml, noAsb, less1Sil, r	29 CFR 1910.1000
US	Thickening Agent	REL		2 (10 h)					r, less1silica, no_asb	NIOSH REL
US	Thickening Agent	TLV®		2					r, noAsb, less1Sil	ACGIH® 2024
US	Formaldehyde ... %	PEL (CA)	0.75		2					Cal/OSHA PEL
US	Formaldehyde ... %	TLV®	0.1		0.3					ACGIH® 2024
US	Formaldehyde ... %	PEL	0.75		2					29 CFR 1910.1000
US	Formaldehyde ... %	REL	0.016 (10 h)				0.1 (15 min)		appx-A	NIOSH REL
US	Formaldehyde ... %	REL	0.016 (10 h)				0.1 (15 min)		HCHO, appx-A	NIOSH REL
US	Ethanol	TLV®			1,000					ACGIH® 2024
US	Ethanol	REL	1,000 (10 h)	1,900 (10 h)						NIOSH REL
US	Ethanol	PEL (CA)	1,000	1,900						Cal/OSHA PEL

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Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of substance	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	Ethanol	PEL	1,000	1,900						29 CFR 1910.1000
US	Methanol	TLV®	200		250				H	ACGIH® 2024
US	Methanol	REL	200 (10 h)	260 (10 h)	250	325				NIOSH REL
US	Methanol	PEL	200	260						29 CFR 1910.1000
US	Methanol	PEL (CA)	200	260	250	325	1,000			Cal/OSHA PEL
US	Isopropanol	TLV®	200		400					ACGIH® 2024
US	Isopropanol	PEL (CA)	400	980	500	1,225				Cal/OSHA PEL
US	Isopropanol	REL	400 (10 h)	980 (10 h)	500	1,225				NIOSH REL
US	Isopropanol	PEL	400	980						29 CFR 1910.1000
US	n-Butanol	TLV®	20							ACGIH® 2024
US	n-Butanol	REL					50	150		NIOSH REL
US	n-Butanol	PEL	100	300						29 CFR 1910.1000
US	n-Butanol	PEL (CA)					50	150		Cal/OSHA PEL
US	Methyl Ethyl Ketone	REL	200 (10 h)	590 (10 h)	300	885				NIOSH REL
US	Methyl Ethyl Ketone	PEL	200	590						29 CFR 1910.1000
US	Methyl Ethyl Ketone	TLV®	75		150				H	ACGIH® 2024
US	Methyl Ethyl Ketone	PEL (CA)	200	590	300	885				Cal/OSHA PEL
US		PEL (CA)							PTFE-de-comp	Cal/OSHA PEL

Notation

+asb containing asbestos fibers

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Notation

appx-A	NIOSH Potential Occupational Carcinogen (Appendix A)
appx-C	Appendix C - Supplementary Exposure Limits
CA-10	Respirable fibers: length > 5µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination.
Ceiling-C	ceiling value is a limit value above which exposure should not occur
fib/cm ³	fibers/cm ³
fib/ml	fibers/ml
H	absorbed through the skin
HCHO	calculated as HCHO (formaldehyde)
i	inhalable fraction
less1silica	with less than 1 % free crystalline silica
no_asb	containing no asbestos fibers
noAsb_less1S	contains no asbestos and less than 1% free crystalline silica
il	
PAHs	as polycyclic aromatic hydrocarbons (PAHs)
partml	particles/ml
PTFE-de-comp	Thermal decomposition of the fluorocarbon chain in air leads to the formation of oxidized products containing carbon, fluorine and oxygen. An index of exposure to these products is possible through their alkaline hydrolysis followed by a quantitative determination of fluoride content. No particular concentration limit is specified pending evaluation of the toxicity of the products but concentrations should be kept below the sensitivity of the analytical method
r	respirable fraction
STEL	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)

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 protective gloves.

- Other protection measures

Wash hands thoroughly after handling.

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

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Physical state	Liquid
Color	Black
Particle	Not relevant (liquid)
Particle size	Not available
Odor	Characteristic

Other safety parameters

pH (value)	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	64.7 °C at 1,013 hPa
Flash point	9.7 °C
Evaporation rate	Not determined
Flammability (solid, gas)	Not relevant (fluid)

Explosive limits 2.5 vol% - 13.5 vol%

- 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

Partition coefficient

- n-octanol/water (log KOW)	Not available
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Auto-ignition temperature	455 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	Not relevant
Viscosity	Not determined
- Kinematic viscosity	Not determined
Explosive properties	None
Oxidizing properties	None

There is no additional information

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. Reacts with water.

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. Moisture.

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. Reducing agents. Strong acids. Strong bases.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide, and silicon oxides may be produced from all coating formulations. Chlorine-containing gases, fluorine-containing gases may be produced in products containing p-chlorobenzotrifluoride. Hazardous combustion products: see section 5.

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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.

GHS of the United Nations, annex 4: May be harmful in contact with skin or if inhaled.

- Acute toxicity estimate (ATE)

Oral 781.3 mg/kg

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
n-butanol	71-36-3	Oral	500 mg/kg
Thickening Agent	Trade Secret	Inhalation: dust/mist	>2.1 mg/l/4h
Aromatic	Trade Secret	Oral	100 mg/kg
Aromatic	Trade Secret	Dermal	300 mg/kg
Aromatic	Trade Secret	Inhalation: vapor	3 mg/l/4h
Methanol	67-56-1	Oral	100 mg/kg
Methanol	67-56-1	Dermal	300 mg/kg
Methanol	67-56-1	Inhalation: vapor	3 mg/l/4h
formaldehyde ... %	50-00-0	Oral	100 mg/kg
formaldehyde ... %	50-00-0	Dermal	300 mg/kg
formaldehyde ... %	50-00-0	Inhalation: vapor	3 mg/l/4h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

May cause cancer.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	Classification	Number
Ethanol	1	
Carbon black	2B	
Isopropanol	3	
Thickening Agent	3	
Thickening Agent	2B	
Aromatic	3	
formaldehyde ... %	1	

Legend

- 1 Carcinogenic to humans
- 2B Possibly carcinogenic to humans
- 3 Not classifiable as to carcinogenicity in humans

National Toxicology Program (United States): Report on Carcinogens

Name of substance	CAS No	Classification	Number
Carbon black	1333-86-4	Known to be human carcinogens	1st Report on Carcinogens
formaldehyde ... %	50-00-0	Known to be a human carcinogen	12th Report on Carcinogens

29 CFR 1910/1915/1926 Occupational Safety and Health Standards: Toxic and Hazardous Substances (carcinogens)

Name of substance	CAS No	Type of registration
formaldehyde ... %	50-00-0	GI §1910.1048, SE §1915.1048, CI §1926.1148

Legend

- CI §1926.1148 Construction Industry (29 CFR 1926.1148)
- GI §1910.1048 General Industry (29 CFR 1910.1048)
- SE §1915.1048 Shipyard Employment (29 CFR 1915.1048)

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause damage to organs. May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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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.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

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.

Product/packaging disposal

Do not empty into drains. Avoid release to the environment. Contact a licensed professional waste disposal service to dispose of this material and its packaging.

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.

Hazardous waste code(s)

The waste code(s) should be assigned in discussion between the user and the waste disposal company.

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.

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SECTION 14: Transport information

14.1 UN number

DOT	UN 1993
IMDG-Code	UN 1993
ICAO-TI	UN 1993

14.2 UN proper shipping name

DOT	Flammable liquid, n.o.s.
IMDG-Code	FLAMMABLE LIQUID, N.O.S.
ICAO-TI	Flammable liquid, n.o.s.
Technical name (hazardous ingredients)	Ethanol, Methyl Ethyl Ketone

14.3 Transport hazard class(es)

DOT	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

DOT	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Remarks

14.7 Transport in bulk according to IMO instruments

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	UN1993, Flammable liquid, n.o.s., (contains: Ethanol, Methyl Ethyl Ketone), 3, II
Reportable quantity (RQ)	12,500 lbs (5,675 kg) (n-butanol) (Aromatic)
Danger label(s)	3



Special provisions (SP)	IB2, T7, TP1, TP8, TP28
ERG No	128

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International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -
 Danger label(s) 3



Special provisions (SP) 274
 Excepted quantities (EQ) E2
 Limited quantities (LQ) 1 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
 Excepted quantities (EQ) E2
 Limited quantities (LQ) 1 L

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)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities

Name of substance	Notes	Reportable quantity (pounds)	Threshold planning quantity (pounds)
Aromatic		1,000	500/10000
formaldehyde ... %	f	100	500

Legend

f Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.)

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- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings	
Name of substance	Effective date
Methanol	12/31/1986
n-butanol	12/31/1986
Isopropanol	12/31/1986
Aromatic	12/31/1986
formaldehyde ... %	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	Remarks	Statutory code	Final RQ pounds (Kg)
Methanol		3 4	5000 (2270)
Methyl Ethyl Ketone		4	5000 (2270)
n-butanol		4	5000 (2270)
Aromatic		1 2 3 4	1000 (454)
formaldehyde ... %		1 3 4	100 (45,4)

Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- 2 "2" indicates that the source is section 307(a) of the Clean Water Act
- 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

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
formaldehyde ... %	50-00-0	Toxic substance	b	15000

Legend

- b On EHS list, vapor pressure 10 mmHg or greater.

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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
Methanol				1.0 %
Methyl Ethyl Ketone				1.0 %
n-butanol		LHS		1.0 %
Isopropanol				1.0 %
Aromatic				1.0 %
formaldehyde ... %		HHS	1000 LBS	0.1 %

- Hazardous Substances List (MN-ERTK)

Name of substance	References	Remarks
Ethanol	A, O	
Methanol	A, N, O	skin
Carbon black	A, N, O, R, *	
Methyl Ethyl Ketone	A, N, O	
n-butanol	A, O	skin
Isopropanol	A, N, O	
Thickening Agent	A, O	fiber
Thickening Agent	A, R, *	fiber
Aromatic	A, N, O	skin
formaldehyde ... %	A, N, O, R, T, *	

Legend

- * Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
- 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
- R International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA
- skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.
- T National Toxicology Program (NTP) "Fifth Annual Report on Carcinogens," 1989 (NTP 89-239). Order information: (919) 541-3992

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- Hazardous Substance List (NJ-RTK)

Name of substance	Classifications
Ethanol	CA MU TE F3
Methanol	TE F3
Carbon black	CA
Methyl Ethyl Ketone	F3
n-butanol	F3
Isopropanol	F3
Thickening Agent	
Thickening Agent	CA
Aromatic	MU F2
formaldehyde ... %	CA CO MU F4

Legend

CA Carcinogenic
 CO Corrosive
 F2 Flammable - Second Degree
 F3 Flammable - Third Degree
 F4 Flammable - Fourth Degree
 MU Mutagenic
 TE Teratogenic

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

Name of substance	Classification
Ethanol	
Methanol	E
Carbon black	
Methyl Ethyl Ketone	E
n-butanol	E
Isopropanol	E
Thickening Agent	
Aromatic	E
formaldehyde ... %	E, S

Legend

E Environmental hazard

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Legend

S Special hazardous substance

- Hazardous Substance List (RI-RTK)

Name of substance	References
Ethanol	T, F
Methanol	T, F
Carbon black	T
Methyl Ethyl Ketone	T, F
n-butanol	T, F
Isopropanol	T, F
Thickening Agent	T
Aromatic	T, F
Aromatic	T, F
formaldehyde ... %	T, F, C
formaldehyde ... %	T, F, C
formaldehyde ... %	T, F, C
formaldehyde ... %	T, F, C

Legend

C Carcinogenicity (IARC)
 F Flammability (NFPA®)
 T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals	
Name of substance	Type of the toxicity
Ethanol	developmental
Methanol	developmental
Carbon black	cancer
Thickening Agent	cancer
formaldehyde ... %	cancer

VOC content

All Cerakote coatings are VOC compliant under the EPA and have low to no VOC content. To find out the VOC content of an individual coating please contact sds@nicindustries.com for more information.

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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	2	Material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	Material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	All ingredients are listed
CA	DSL	All ingredients are listed
CN	IECSC	All ingredients are listed
EU	ECSI	Not all ingredients are listed
EU	REACH Reg.	Not all ingredients are listed
JP	CSCL-ENCS	Not 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	Not all ingredients are listed
TW	TCSI	All ingredients are listed
US	TSCA	All ingredients are listed (ACTIVE)

Legend

AIIC	Australian Inventory of Industrial Chemicals
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
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

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Legend

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® 2024	From ACGIH®, 2024 TLVs® and BEIs® Book. Copyright 2024. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
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)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
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

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Abbr.	Descriptions of used abbreviations
IMDG-Code	International Maritime Dangerous Goods Code
LHS	Lower hazard substance
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
VOC	Volatile Organic Compounds
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 section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.



INNOVATIONS OF **NIC INDUSTRIES**

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

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Code	Text
H350	May cause cancer.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.