

Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Challenge

Revision: 11/1/2017

1. Identification

Product identifier

Product name: Challenge

Product number: CHA

Recommended use and restriction on use

Recommended use: Floor finish.

Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

Verax Chemical Company
20102 Broadway Ave
Snohomish, WA 98296
Tel: 360-668-2431

Emergency telephone number

USA: (800) 535-5053 International: +1 (352) 323-3500

2. Hazard(s) identification

Classification of the substance or mixture

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

Hazard class and category	Hazard statement code(s)
Serious eye damage/eye irritation	Cat. 1. H318

Label elements

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

Signal word: Danger

Pictograms



GHS05

Hazard statements

H318 Causes serious eye damage

Precautionary statements - prevention

Wear eye protection/face protection.

Precautionary statements – response

Immediately call a POISON CENTER or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Other hazards

Toxic to aquatic life with long lasting effects.

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3. Composition/information on ingredients

Chemical Name	CAS No.	Weight %
Zinc oxide	1314-13-2	10-20
Nonylphenol Ethoxylate	127807-87-0	10-20
Tributoxyethyl phosphate	78-51-3	<5

Additional information:

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. **

4. First-aid measures

Description of first aid measures**General Advice****After inhalation**

Remove to fresh air.

After skin contact

Wash off immediately with plenty of water for at least 15 minutes.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

After swallowing

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

May be harmful if swallowed. Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media**Suitable extinguishing agents**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing agents: Not determined.

Special hazards arising from the substance or mixture

Not determined.

Advice for firefighters**Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for clean-up

Keep in suitable, closed containers for disposal.

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

Precautions for safe handling

Recommendations

Wear eye/face protection.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Requirements to be met by storerooms and receptacles

None.

Incompatible substances or mixtures

None known based on information supplied.

Specific end use(s): No relevant information available.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	CAS No.	Type	[ppm]	[mg/m ³]
Zinc oxide	1314-13-2	TWA	-	5, fume 15, total dust

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5, respirable fraction

US. ACGIH Threshold Limit Values

Chemical Name	CAS No.	Type	[ppm]	[mg/m ³]
Zinc oxide	1314-13-2	STEL	-	10, respirable particulate
		TWA	-	2, respirable particulate

US. NIOSH: Pocket Guide to Chemical Hazards

Chemical Name	CAS No.	Type	[ppm]	[mg/m ³]
Zinc oxide	1314-13-2	IDLH	-	500
		Ceiling	-	15, dust
		TWA	-	5, dust and fume
		STEL	-	10, fume

Notation

- PEL Permissible exposure limit.
- 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.
- IDLH Immediately Dangerous to Life or Health

Exposure controls

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice.

Eye/face protection

Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and body protection

Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory protection

Refer to 29 CFR 1910.134 for respiratory protection requirements.

Other protection measures

None.

Limitation and supervision of exposure into the environment

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

Risk management measures No special requirements.

9 Physical and chemical properties

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Information on physical and chemical properties

Appearance

Form	Semi-translucent liquid
Color	Off-white
Odor	Mild
Odor threshold	Not determined
pH	8
Melting point/freezing point	0°C (32°F)
Boiling point/boiling point range	100°C (212°F)
Flash point	Not flammable
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not determined
Flammability limit – upper (%)	Not determined
Explosive limit – lower (%)	Not determined
Explosive limit – upper (%)	Not determined
Vapor Pressure at 20°C (68°F)	Not determined
Density at 20°C (68°F)	1.03 g/cm ³ (8.66 lbs/gal)
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility(ies)	
Solubility (water)	Dispersible
Partition coefficient (n-octanol/water)	Not determined
Viscosity	Not determined
Other information	No relevant information available

10 Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage, and transport

Chemical stability

The product is stable under normal conditions

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Keep away from children.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

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11 Toxicological information

Information on likely routes of exposure

Product Information

Eye Contact: Causes serious eye damage.

Skin Contact: Avoid contact with skin.

Inhalation: Do not inhale.

Ingestion: May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nonylphenol Ethoxylate 127087-87-0	=1310 mg/kg (Rat)	-	-
Zinc oxide 1314-13-2	>5000 mg/kg (Rat)	-	-
Ammonium Carbonate 506-87-6	=2150 mg/kg (Rat)	-	-
Di (ethylene glycol) ethyl ether 111-90-0	=10502 mg/kg (Rat)	=9143 mg/kg (Rabbit) =6 mL/kg (Rat) =4200 µL/kg (Rabbit)	>5240 mg/m ³ (Rat) 4 h
Tributoxyethyl phosphate 78-51-3	=3 g/kg (Rat)	>16 mL/kg (Rabbit)	>6.4 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 4,087.00 mg/kg
ATEmix (inhalation-dust/mist) 5.62 mg/L



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12 Ecological information

Toxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Endpoint Value	Species	Exposure time
Ammonium Carbonate 506-87-6	37 mg/L LC50	Pimephales promelas	96 h
Di(ethylene glycol)ethyl ether 111-90-0	11400-15700 mg/L LC50 flow-through	Oncorhynchus mykiss	96 h
	11600-16700 mg/L LC50 flow-through	Pimephales promelas	96 h
	19100-23900 mg/L LC50 flow-through	Lepomis macrochirus	96 h
	10000 mg/L LC50 static	Lepomis macrochirus	96 h
	13400 mg/L LC50 flow-through	Salmo gairdneri	96 h
Tributoxyethyl phosphate 78-51-3	10.4-12 mg/L LC50 flow-through	Pimephales promelas	96 h

Persistence and degradability

Not determined.

Bioaccumulative potential

Not determined.

Mobility in soil

No relevant information available.

OR

Chemical Name	Partition Coefficient
Di (ethylene glycol) ethyl ether 111-90-0	-0.8
Tributoxyethyl phosphate 78-51-3	3.65-4.78

Additional ecological information

General notes:

Other adverse effects: Not determined.

13 Disposal considerations

Waste treatment methods

Disposal Recommendations

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.



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California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Zinc oxide 1314-13-2	Toxic

14 Transport information

DOT

Not regulated.

IATA

Not regulated.

IMDG

Marine Pollutant

This material may meet the definition of a marine pollutant.

15 Regulatory information

International Inventories

All ingredients are listed or exempt from listing on Chemical Substance Inventory

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium carbonate 506-87-6	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313

Chemical Name	CAS No.	Weight-%	SARA 313 – Threshold Values %
Zinc Oxide	1314-13-2	10-20	1.0
Ammonium Carbonate	506-87-6	10-20	1.0
Di (ethylene glycol) ethyl ether	111-90-0	<5	1.0

CWA (Clean Water Act)

Chemical Name	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
Zinc Oxide	-	X	-	-
Ammonium Carbonate	-	-	-	X

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania

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Zinc oxide	X	X	X
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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.

Date of Preparation / current revision: 11/1/2017 /

· Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers