

SAFETY DATA SHEET

Floor Finish Concentrate

Section 1. Identification

GHS product identifier Floor Finish Concentrate

ST-0716 Other means of identification CHEM-4600 **Product type** Liquid.

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

Product use : Acrylic finish for floors

Area of application : Industrial applications, Professional applications.

Product dilution information : 50 ounces (1.48 L) of concentrate plus 78 ounces of water (2.30 L) make 1 gallon (3.78 L)

Supplier/Manufacturer : STEARNS PACKAGING CORPORATION

4200 Sycamore Avenue (53714)

PO Box 3216

Madison, WI 53704-0216 Telephone no.: 800-655-5008 Fax no.: 608-246-5149

Website: www.stearnspkg.com

e-mail address of person responsible for this SDS

: stearns@stearnspkg.com

Emergency telephone number (with hours of

operation)

: CHEM-TEL: 800-255-3924

Section 2. Hazards identification

Product as SOLD

Physical hazards : Not classified. **Health hazards** Not classified. **Environmental hazards** : Not classified. : Not classified. **OSHA** defined hazards

Label elements

Hazard symbol : None

Signal word : None

Hazard statements : The mixture does not meet the criteria for

classification.

Precautionary statements

General : Keep out of the reach of children.

Prevention : Observe good industrial hygiene practices.

Response : Wash hands after handling.

: Store away from incompatible materials. Storage

Disposal : Dispose of waste and residues in

requirements.

Hazards not otherwise

classified

Supplemental information

accordance with local authority

: Prolonged or repeated contact may dry

skin and cause irritation.

: Not applicable.

Product AT USE DILUTION

Not classified. Not classified. Not classified.

Not classified.

None

None

The mixture does not meet the criteria for classification.

Keep out of the reach of children.

Observe good industrial hygiene practices.

Rinse hands after handling.

No storage precautions necessary.

Dispose of solution down the drain to

municipal sewer.

Not applicable.

Not applicable.

Date of issue/Date of revision : 05/15/2015 Version : 1 1/11 Date of previous issue : No previous validation

Section 3. Composition/information on ingredients

Chemical name	CAS No.	Weight %*
Styrene acrylic copolymer	Proprietary	10-30
2-(2-ethoxyethoxy)ethanol	111-90-0	3-7
Tributoxyethyl phosphate	78-51-3	1-5
Zinc oxide	1314-13-2	0.1-1
Ammonia	7664-41-7 0.1-1	
*The exact percentage (concentration) of composition has been withheld as a trade		

This material is not considered to be hazardous according to regulatory guidelines (see Section 15 of the SDS).

Section 4 First aid measures

Section 4. First aid measures			
	oduct as SOLD Product AT USE DILUTION		
Inhalation	breathing is difficult, remove to fresh air d keep at rest in a position comfortable breathing. Call a physician if symptoms velop or persist. No special measures required symptomatically.	l. Treat	
Skin contact	rritation occurs, flush exposed area with ter. Get medical attention if irritation velops and persists. No known effect after skin cor with water for a few minutes.	ntact. Rinse	
Eye contact	nse with water. Remove contact lenses oresent and easy to do. Continue rinsing. It medical attention if irritation develops d persists. No known effect after eye con with water for a few minutes. I persists, get medical attention develops dependent of the persists of the persists of the persists of the persists of the persist of the	f irritation	
Ingestion	Get medical attention if sympt of the sympt	oms occur.	
Most important symptoms/effects, acute and delayed	rect contact with eyes may cause nporary irritation.		
Indication of immediate medical attention and special treatment needed	eat symptomatically. Treat symptomatically.		
General information	sure that medical personnel are aware the material(s) involved, and take ecautions to protect themselves.	l.	
Section 5 Fire-figh	ecautions to protect themselves.		

Section 5. Fire-fighting measures

Suitable extinguishing media: Treat for surrounding material.

Unsuitable extinguishing

media

: Not available.

the chemical

Specific hazards arising from : During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters : Self-contained breathing apparatus and full protective clothing must be worn in case of

Fire-fighting equipment/instructions : Move containers from fire area if you can do so without risk.

Specific methods : Use standard firefighting procedures and consider the hazards of other involved

materials.

General fire hazards : No unusual fire or explosion hazards noted.

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 2/11

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Product as SOLD

: Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water. Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

: Avoid discharge into storm water drains, water courses or onto the ground.

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and run off with soil and surface waterways.

Use a water rinse for final clean-up.

Large Spills: Flush area with water. Prevent entry into waterways.

Small Spills: Wipe up with absorbent material.

Discharge collected material per Section 13 of the SDS.

Avoid discharge into storm water drains, water courses, or onto the ground.

Section 7. Handling and storage

Product as SOLD

Precautions for safe handling

including any incompatibilities : Use care in handling/storage.

Conditions for safe storage, : Keep out of reach of children. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Product AT USE DILUTION

Wash hands thoroughly after handling.

Keep out of reach of children.

Section 8. Exposure controls/personal protection

Product as SOLD

Occupational exposure limits

Chemical Name	ACGIH TLV	OSHÁ PEL	NIOSH IDLH
Zinc oxide 1314-13-2	STEL: 10 mg/m³ respirable fraction TWA: 2 mg/m³ respirable fraction	TWA: 5 mg/m³ furne TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ tume (vacated) TWA: 10 mg/m² total dust (vacated) TWA: 5 mg/m² respirable fraction (vacated) STEL: 10 mg/m² furne	IDLH: 500 mg/m³ Ceiling: 15 mg/m³ dust TWA: 5 mg/m³ dust and fume STEL: 10 mg/m² fume
Ammonia 7664-41-7	STEL: 35 ppm TWA: 25 ppm	TWA: 50 ppm TWA: 35 mg/m ⁵ (vacated) STEL: 35 ppm (vacated) STEL: 27 mg/m ³	IDLH: 300 ppm TWA: 25 ppm TWA: 18 mg/m ³ STEL: 35 ppm STEL: 27 mg/m ³
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Product AT USE DILUTION

No exposure limits noted for ingredient(s).

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 3/11

Section 8. Exposure controls/personal protection

Appropriate engineering controls

Product as SOLD

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.

Product AT USE DILUTION

Good general ventilation should be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

: Safety glasses if eye contact is possible.

Skin protection

Hand protection : Not normally needed.

Other : As required by employer code.

Respiratory protection : No personal respiratory protective equipment normally required.

Thermal hazards : Wear appropriate thermal protective

clothing, when necessary.

clothing and protective equipment to

: Always observe good personal hygiene **General hygiene** considerations measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

No protective equipment is needed under normal conditions.

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.

Section 9. Physical and chemical properties

Product as SOLD

remove contaminants.

Appearance : Opaque **Physical state** : Liquid. **Form** : Liquid. Color : Off-white Odor : Mild ammonia **Odor threshold** : Not available. pН 8.0-9.0

Melting point : Not available. : 212 °F (100 °C)

Initial boiling point and

boiling range

Pour point Specific gravity : Not available. Flash point : None

Evaporation rate : Not available. Flammability (solid, gas) : Not applicable.

Lower and upper explosive (flammable) limits

Vapor pressure

: Not available.

: Not available.

: <0.013 kPa (<0.1 mm Hg)

Product AT USE DILUTION

Opaque Liquid. Liquid. Off-white Mild ammonia Not available. 7.5-8.5 Not available.

212 °F (100 °C)

Not available. Not available. None Not available.

Not applicable. Not available.

<0.013 kPa (<0.1 mm Hg)

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 4/11

Section 9. Physical and chemical properties

Product as SOLD

: Not available. Vapor density

Relative density : 1.054 **Solubility** : Complete **Auto-ignition temperature** : Not available. **Decomposition temperature**: Not available.

Viscosity : <100 mPa·s (<100 cP)

Other information

Not available **Bulk density** : 8.79 lbs/gallon **VOC Content (%)** 6.10247 Not available

Section 10. Stability and reactivity

Product as SOLD

Reactivity : None known.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Chemical stability : Material is stable under normal conditions.

Conditions to avoid : Do not mix with other chemicals. Keep from freezing.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

: No hazardous decomposition products are known.

Section 11. Toxicological information

Information on the likely routes of exposure

Product as SOLD

Ingestion : Expected to be a low ingestion hazard.

Inhalation : No adverse effects due to inhalation are

expected.

Skin contact : No adverse effects due to skin contact are

expected.

Eye contact Direct contact with eyes may cause

temporary irritation.

Symptoms related to the physical, chemical and

toxicological characteristics

: Direct contact with eyes may cause

temporary irritation

Product AT USE DILUTION

Product AT USE DILUTION

Not available.

Not available

Not available.

Not available.

<100 mPa·s (<100 cP)

Complete

Expected to be a low ingestion hazard.

No adverse effects due to inhalation are expected.

No adverse effects due to skin contact are expected.

Direct contact with eyes may cause

temporary irritation.

Direct contact with eyes may cause

temporary irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50 > 5240 mg/m³ (Rat) 4 h	
2-(2-ethoxyethoxy)ethanol 111-90-0	= 1920 mg/kg (Rat)	= 4200 µL/kg (Rabbit) = 6 mL/kg (Rat)		
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h	

Information on toxicological effects

Product as SOLD

Acute toxicity : Not available.

Skin corrosion/irritation : Prolonged skin contact may cause

temporary irritation.

: Not available. **Exposure minutes Erythema value** : Not available. **Oedema value** : Not available.

Product AT USE DILUTION

Not available.

No known significant effects or critical

hazards. Not available. Not available.

Not available.

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 5/11

Section 11. Toxicological information

Serious eye damage/eye

irritation

Corneal opacity value

Product as SOLD

: Direct contact with eyes may cause

temporary irritation. : Not available.

: Not available.

: Not available.

Iris lesion value : Not available.

Conjunctival reddening

value

Conjunctival oedema

value

Recover days : Not available.

Respiratory or skin sensitization

Respiratory sensitization: Not available.

Skin sensitization : This product is not expected to cause skin

sensitization.

temporary irritation.

Germ cell mutagenicity

: No data available to indicate product or any components present at greater than

0.1% are mutagenic or genotoxic.

: Direct contact with eyes may cause

: The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when

consumed as alcoholic beverage.

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of

Labor)

X - Present

Product AT USE DILUTION

No known significant effects or critical

hazards.

Not available.

Not available.

Not available.

Not available.

Not available.

No known significant effects or critical

hazards.

Not available.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

Carcinogenicity

NTP (National Toxicology Program)

Product as SOLD

Reproductive toxicity : This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity: Not classified.

-single exposure

Specific target organ toxicity: Not classified.

-repeated exposure

Aspiration hazard : Not available.

Chronic effects : Ethanol has been shown to be a

> reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an

alcoholic beverage.

Further information 0.916927% of the mixture consists of

ingredient(s) of unknown toxicity

Product AT USE DILUTION

This product is not expected to cause reproductive or developmental effects.

Not classified.

Not classified.

Not available.

Not available.

This product has no known adverse effect

on human health.

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 6/11

Section 12. Ecological information

Ecotoxicity

: 34.68746% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

34.68746% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-(2-ethoxyethoxy)ethanol 111-90-0		10000: 96 h Lepomis macrochirus mg/L LC50 static 19100 - 23900: 96 h Lepomis macrochirus mg/L LC50 flow-through 11400 - 15700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11600 - 16700: 96 h Pimephales promelas mg/L LC50	3940 - 4670: 48 h Daphnia magna mg/L EC50
		flow-through 13400: 96 h Salmo gairdneri mg/L LC50 flow-through	
Tributoxyethyl Phosphate 78-51-3	10	10.4 - 12.0: 96 h Pimephales promelas mg/L LC50 flow-through	578
Nonylphenol Ethoxylate 9016-45-9	42	5: 96 h Fish mg/L LC50	
Ammonia 7664-41-7	12	0.44: 96 h Cyprinus carpio mg/L LC50 0.26 - 4.6: 96 h Lepomis macrochirus mg/L LC50 1.17: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.73 - 2.35: 96 h Pimephales promelas mg/L LC50 5.9: 96 h Pimephales promelas mg/L LC50 static 1.5: 96 h Poecilia reticulata mg/L LC50 1.19: 96 h Poecilia reticulata mg/L LC50 static	25.4: 48 h Daphnia magna mg/L LC50
Ethanol 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50
Methyl Chloro Isothiazolinone 26172-55-4	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.31: 120 h Anabaena flos-aquae mg/L EC50	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static
Magnesium Chloride 7786-30-3	2200: 72 h Desmodesmus subspicatus mg/L EC50	1970 - 3880: 96 h Pimephales promelas mg/L LC50 static 4210: 96 h Gambusia affinis mg/L LC50 static	140: 48 h Daphnia magna mg/L EC50 Static 1400: 24 h Daphnia magna mg/L EC50

Persistence and degradability

: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Chemical Name	Partition coefficient
2-(2-ethoxyethoxy)ethanol 111-90-0	-0.8
Tributoxyethyl Phosphate 78-51-3	4.78
Ammonia 7664-41-7	-1.14

Mobility in soil

: No data available.

Mobility in general

: Not available.

Other 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.

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 7/11

Section 13. Disposal considerations

Product as SOLD

Disposal instructions

: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

: Dispose in accordance with all applicable regulations.

Hazardous waste code

: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

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.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

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

Section 14. Transport information

Product as SOLD

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper	Cleaning Compounds, NOI,	-	-
shipping name	liquid		
Transport	-	-	-
hazard class(es)			
Packing group	-	-	-
Environmental	No.	No.	No.
hazards			
Additional	-	-	-
information			

Product AT USE DILUTION

Not intended for transport

Section 15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export : Not regulated. Notification (40 CFR 707,

Subpt. D)

CERCLA Hazardous

Substance List (40 CFR

302.4)

US. OSHA Specifically Regulated Substances (29

CFR 1910.1001-1050)

Product as SOLD

: Not listed.

: Not listed.

Product AT USE DILUTION

Not regulated.

Not listed.

Not listed.

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 8/11

Superfund Amendments and Reauthorization Act of 1986 (SARA)

: No

Section 15. Regulatory information

Product as SOLD

: Immediate Hazard - No

Delayed Hazard - No Fire Hazard – No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Hazard categories

SARA 311/312 Hazardous: No

chemical

SARA 313 (TRI reporting):

Product AT USE DILUTION

Non-hazardous.

Not listed.

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name

SARA 313 - Threshold Values %

1.0

2-(2-ethoxyethoxy)ethanol - 111-90-0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc oxide 1314-13-2	-	Х	-	
Ammonia 7664-41-7	100 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonia	100 lb	100 lb	RQ 100 lb final RQ
7664-41-7			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Ethanol - 64-17-5	Carcinogen
	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-(2-ethoxyethoxy)ethanol 111-90-0	X	-	Х
Ammonia 7664-41-7	X	X	Х
Ethanol 64-17-5	Х	X	Х
Magnesium Nitrate 10377-60-3	X	X	Х

Other federal regulations

Product as SOLD

Clean Air Act (CAA) **Section 112 Hazardous Air**

Pollutants (HAPs) List

: Not regulated.

: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental **Release Prevention** (40 CFR 68.130)

Safe Drinking Water Act (SDWA)

: Not regulated.

Food and Drug Administration (FDA) : Not regulated.

US State regulations

US - California Proposition: See above.

65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

US. Massachusetts RTK -: See above

Substance List

US. Pennsylvania RTK -

: See above.

Hazardous Substances

US. Rhode Island RTK : Not regulated.

Country(s) or region Inventory name United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

Product AT USE DILUTION

Not regulated.

Not regulated.

Not regulated.

Not regulated.

See above

See above

See above

Not regulated.

On inventory (yes/no)*

Yes

Section 16. Other information

Product as SOLD

Hazardous Material Information System (U.S.A.)

Health	1	
Flammability	0	
Physical hazards	0	

National Fire Protection Association (U.S.A.)

Health



Product AT USE DILUTION Hazardous Material Information System (U.S.A.)

Health 0 **Flammability** 0 Physical hazards 0

Health



MSDS File Name

CHEM-4600 FLOOR FINISH SDS

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Date of issue/Date of

revision

: 05/15/2015

Date of previous issue

: No previous validation

Prepared by JBE, Stearns Packaging Corporation

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version: 1 10/11 Floor Finish Concentrate

Date of issue/Date of revision : 06/23/2014 Date of previous issue : No previous validation Version : 1 11/11