

Sovrez[®] 1055Z

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, OH 44333	Emergency Contact Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
Trade Name(s): Sovrez [®] 1055 Z	Synonyms: Phenolic resin and zinc oxide mixture
Chemical Name: Heat reactive phenolic resin and zinc oxide	
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Resin.
Issued By: Sovereign Chemical Company According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	SDS Number: 1752 Date of Issue: October 28, 2013 Revision Number: 5 (Supersedes August 24, 2012) Change(s): Update to GHS requirement and DOT Class 9.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008: The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H410.



GHS09 Environment

Aquatic Acute 1

Aquatic Chronic 1

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects



GHS07

Eye Irrit. 2

Skin Sens. 1A

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36 Irritating to eyes.



Xi; Sensitizing

R43 May cause sensitization by skin contact.



N; Dangerous for the environment

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

Information concerning particular hazards for human and environment

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS07 GHS09

Signal word: Warning

Hazard-determining components of labeling: Phenol-Formaldehyde Polymers

Hazard statements

- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

- P280 Wear protective gloves and eye protection.
- P264 Wash thoroughly after handling.
- P261 Avoid breathing dust.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Additional information: Contains Phenol-Formaldehyde Polymers. May produce an allergic reaction.

Hazard description

WHMIS-symbols



D1B – Toxic material causing immediate and serious toxic effects.
D2B – Toxic material causing other toxic effects.

NFPA ratings (scale 0-4)



Health = 1
Fire = 0
Reactivity = 0

HMIS ratings (scale 0-4)










Health = 1
Fire = 0
Reactivity = 0

HMIS Long Term Health Hazard Substances: None of the ingredients is listed.











2.3 Other hazards
 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
 Description: Mixture of substances listed below with nonhazardous additions.
 Dangerous components

	Phenolic Resin  Xi R36;  Xi R43  Eye Irrit. 2, H319;  Skin Sens. 1A, H317	50-100%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7	zinc oxide  N R50/53  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410	25-50%

Additional information: For the wording of the listed risk phrases refer to section 16.
 Notable Trace Components (< 0.1% w/w)

CAS: 50-00-0 EINECS: 200-001-8 Index number: 605-001-00-5	formaldehyde  T R23/24/25;  C R34  Xn R40;  Xi R43 Carc. Cat. 3  Acute Tox. 3, H301;  Acute Tox. 3, H311;  Acute Tox. 3, H331  Carc. 2, H351  Skin Corr. 1B, H314  Skin Sens. 1, H317
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4. FIRST AID MEASURES

4.1 Description of first aid measures
 General information: Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation
 Supply fresh air; consult doctor in case of complaints.
 In case of unconsciousness place patient stably in side position for transportation.

After skin contact
 Immediately wash with water and soap and rinse thoroughly.
 If skin irritation continues, consult a doctor.

After eye contact
 Remove contact lenses if worn.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing
 Rinse out mouth and then drink plenty of water.
 Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions.

Gastric or intestinal disorders.

Coughing.

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Contains zinc salts.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

If necessary oxygen respiration treatment.

If swallowed, gastric irrigation.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: No further relevant information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 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

7.1 Precautions for safe handling
 Prevent formation of dust.
 Any unavoidable deposit of dust must be regularly removed.
 No special precautions are necessary if used correctly.
 Information about fire and explosion protection
 Protect against electrostatic charges.
 Dust can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities
 Storage
 Requirements to be met by storerooms and receptacles
 Store in a cool location.
 Avoid storage near extreme heat, ignition sources or open flame.
 Information about storage in one common storage facility
 Store away from foodstuffs.
 Store away from oxidizing agents.
 Do not store together with acids.
 Further information about storage conditions
 Store in cool, dry conditions in well-sealed receptacles.
 Keep container tightly sealed.

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

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
 Ingredients with limit values that require monitoring at the workplace

1314-13-2 zinc oxide	
PEL (USA)	15* 5** 5*** mg/m ³ *total dust **respirable fraction ***fume
REL (USA)	Short-term value: C 15* 10** mg/m ³ Long-term value: 5* 5** mg/m ³ *dust only **fume
TLV (USA)	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction
EL (Canada)	Short-term value: 10 mg/m ³ Long-term value: 2 mg/m ³
EV (Canada)	Short-term value: 10 mg/m ³ Long-term value: 2 mg/m ³ respirable

DNELs: No further relevant information available.
 PNECs: No further relevant information available.
 Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
 Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.

Respiratory protection



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing

Protection of hands



Protective Gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

Neoprene gloves
 Nitrile rubber, NBR

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

Penetration time of glove material

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

Eye protection



Safety glasses

Body protection: Protective work clothing.

Limitation and supervision of exposure into the environment: No further relevant information available.

Risk management measures

See Section 7 for additional information.
 No further relevant information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

General Information

Appearance Form: Powder. Color: Yellow.	Change in Condition Melting Point/Melting Range: Undetermined. Boiling Point/Boiling Range: Undetermined.
Odor: Odorless	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH Value: Not applicable.
Vapor Pressure: Not applicable.	Flash point: Not applicable
Density at 20 °C: 2.5 g/cm³.	Flammability (solid, gaseous): Highly flammable.
Relative density Not determined.	Ignition temperature: Not determined.
Vapor Density: Not applicable.	Decomposition temperature: Not determined.

Evaporation rate Not applicable.	Self-igniting: Product is not self-igniting.
Solubility in / Miscibility with water: Soluble.	Danger of explosion: Not determined.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.
Solvent content: Organic solvents: Not determined.	Solids content: Not determined.

9.2 Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong acids.

Reacts with oxidizing agents.

As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion.

Toxic fumes may be released if heated above the decomposition point.

10.4 Conditions to avoid: Store away from oxidizing agents.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products

Toxic metal oxide smoke.

Carbon monoxide and carbon dioxide.

Formaldehyde.

Phenol.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:		
1314-13-2 zinc oxide		
Oral	LD50	>5000 mg/kg (rat)

Primary irritant effect

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful.

Irritant

Danger through skin adsorption.

Sensitization: Sensitization possible by skin contact.

Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio-accumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Ecotoxicological effects

Remark: Very toxic to fish.

Additional ecological information

General notes

This statement was deduced from the properties of the single components.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also, poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

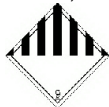

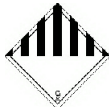

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Un-cleaned packaging

Recommendation: Disposal must be made according to official regulations.

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

14. TRANSPORTATION INFORMATION

14.1 UN-Number DOT, ADR, IMDG, IATA	UN3077
14.2 UN proper shipping name: DOT, IATA ADR IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide) 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S (zinc oxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide), MARINE POLLUTANT
14.3 Transport hazard class(es) DOT, IMDG, IATA	
  Class Label ADR	9 Miscellaneous dangerous substances and articles. 9
  Class Label	9 (M7) Miscellaneous dangerous substances and articles. 9
14.4 Packing group DOT, ADR, IMDG, IATA	III
14.5 Environmental hazards Marine pollutant Special Marking (ADR) Special Marking (IATA)	Product contains environmentally hazardous substances: zinc oxide Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Danger code (Kemler) EMS Number	Warning: Miscellaneous dangerous substances and articles 90 F-A, S-F.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Transport/Additional information ADR Limited quantities (LQ) Transport category Tunnel restriction code	Not applicable. 5 kg 3 E

UN "Model Regulation"

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (zinc oxide), 9, III

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)

SARA Section 355 (extremely hazardous substances)	50-00-0 formaldehyde
SARA Section 313 (Specific toxic chemical listings)	1314-13-2 zinc oxide 50-00-0 formaldehyde
TSCA (Toxic Substances Control Act)	1314-13-2 zinc oxide 50-00-0 formaldehyde
Proposition 65 (California)	
Chemicals known to cause cancer Present in trace quantities.	50-00-0 formaldehyde
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.
Chemicals known to cause developmental toxicity	None of the ingredients is listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	1314-13-2 zinc oxide II 50-00-0 formaldehyde B1
IARC (International Agency for Research on Cancer)	50-00-0 formaldehyde 1
TLV (Threshold Limit Value established by ACGIH)	50-00-0 formaldehyde A2
NIOSH-Ca (National Institute for Occupational Safety and Health)	50-00-0 formaldehyde
OSHA-Ca (Occupational Safety & Health Administration)	50-00-0 formaldehyde
Canada	
Canadian Domestic Substances List (DSL)	1314-13-2 zinc oxide 50-00-0 formaldehyde
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)	1314-13-2 zinc oxide

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

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

Relevant phrases

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
R36 Irritating to eyes.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations and acronyms:

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent



Safety Data Sheet

Dear Customer:

Section 313 of SARA Title III (also known as the Emergency Planning and Community Right to Know Act, or EPCRA) requires certain suppliers of mixtures or trade name products to notify their customers when such mixtures or trade name products contain chemicals listed in Section 313. This letter constitutes a supplier notification that the following product you ordered contains one or more chemicals on the Section 313 list (*) as noted below:

Product Name:	Sovrez® 1055Z	
Chemical Name (*)	CAS #	% Composition
Zinc Oxide*	1314-13-2	25-50
Formaldehyde	50-00-0	<0.1

*Zinc oxide is listed under the general category of zinc compounds.

In addition, a SDS for this product is enclosed for your use.

If you are a distributor and you sell this product to another customer (s), you are required under Section 313 to furnish the same information and SDS to that customer (s).

If you have any questions, please do not hesitate to contact our Technical Department at 330.542.8400.

Sovereign Chemical Company