

## Safety Data Sheet

## Prepared in Accordance with HCS 29 C.F.R. 1910.1200

## 1. Identification of the Substance/Mixture and the Company/Undertaking

Product Identifier P391S1NL

> **FORTIFIER HT Revision Date:** 06/04/2019 **Product Name:**

> > Supercedes Date: 07/21/2015 Component of multicomponent

1.2 Relevant identified uses of the

substance or mixture and uses

advised against

industrial coatings - Industrial

use.

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

Carboline Company Manufacturer:

2150 Schuetz Road St. Louis, MO USA 63146

Regulatory / Technical Information: Contact Carboline Technical Services at

1-800-848-4645

Schlereth, Ken - ehs@stoncor.com **Datasheet Produced by:** 

CHEMTREC 1-800-424-9300 (Inside US) 1.4 Emergency telephone number:

CHEMTREC +1 703 5273887 (Outside US)

HEALTH - Pittsburgh Poison Control 1-412-681-6669

## 2. Hazard Identification

#### Classification of the substance or mixture 2.1

Hazardous to the aquatic environment, Chronic, category 2 Flammable Liquid, category 3 STOT, single exposure, category 3, NE STOT, single exposure, category 3, RTI Skin Corrosion, category 1

#### 2.2 Label elements

#### Symbol(s) of Product



## Signal Word

Danger

#### Named Chemicals on Label

AROMATIC HYDROCARBON

Flammable Liquid, category 3

#### **HAZARD STATEMENTS**

Skin Corrosion, category 1 STOT, single exposure, category 3, RTI STOT, single exposure, category 3, NE Hazardous to the aquatic environment,	H314-1 H335 H336 H411	Causes severe skin burns and eye damage.  May cause respiratory irritation.  May cause drowsiness or dizziness.  Toxic to aquatic life with long lasting effects.
Chronic, category 2		
PRECAUTION PHRASES		
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.
	P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P3	IF IN EYES: Rinse cautiously with water for several minutes.
	38	Remove contact lenses, if present and easy to do so. Continue rinsing.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.

Flammable liquid and vapour.

Store in a well-ventilated place. Keep container tightly

#### 2.3 Other hazards

No Information

## Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

P403+233

H226

# 3. Composition/Information On Ingredients

#### 3.2 Mixtures

#### **Hazardous Ingredients**

CAS-No.	<u>Chemical Name</u>	<u>%</u>
64742-95-6	AROMATIC HYDROCARBON	75 - 100
919-30-2	3-AMINOPROPYLTRIETHOXYSILANE	10 - <25
100-41-4	ETHYL BENZENE	0.1 - <1.0

closed.

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
64742-95-6	GHS02-GHS07-GHS08-GHS09	H226-304-315-319-332-335-336-411	0
919-30-2	GHS05-GHS07	H302-314-H318	0
100-41-4	GHS02-GHS07-GHS08	H225-304-315-319-332-351-373-412	0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

#### 4. First-aid Measures

#### 4.1 Description of First Aid Measures

**AFTER INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**AFTER INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

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

Causes burns. May be harmful if swallowed. Corrosive after repeated contact with skin and mucous membranes.

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

Immediate medical attention is required.

When symptoms persist or in all cases of doubt seek medical advice.

## 5. Fire-fighting Measures

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Combustible LiquidProvide adequate ventilation. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

No Information

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Combustible material. Cool containers / tanks with water spray.

## 6. Accidental Release Measures

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

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

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

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## 7. Handling and Storage

#### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Keep containers dry and tightly closed to avoid moisture absorption and contamination. Prepare the working solution as given on the label(s) and/or the user instructions. Do not breathe vapours or spray mist. Ensure all equipment is electrically grounded before beginning transfer operations. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection. Wash thoroughly after handling.

**PROTECTION AND HYGIENE MEASURES:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Heat, flames and sparks.

**STORAGE CONDITIONS:** Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

#### 7.3 Specific end use(s)

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

#### 8.1 Control parameters

# Ingredients with Occupational Exposure Limits (US)

<u>Name</u>	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
AROMATIC HYDROCARBON	64742-95-6	300.0 PPM	N/E	N/E
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	N/E	N/E	N/E
ETHYL BENZENE	100-41-4	20 PPM	125 ppm	
<u>Name</u>	CAS-No.	OSHA PEL	OSHA STEL	
AROMATIC HYDROCARBON	64742-95-6	500.0 PPM	N/E	
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	N/E	N/E	
ETHYL BENZENE	100-41-4	435 MGM3, 100	545 MGM3, 125 PPM	

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

#### 8.2 Exposure controls

#### **Personal Protection**

**RESPIRATORY PROTECTION:** In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

**EYE PROTECTION:** Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses with side-shields.

**HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves. Request information on glove permeation properties from the glove supplier. Lightweight protective clothing

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas

## 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Clear Liquid

Physical State Liquid
Odor Solvent

 Odor threshold
 N/D

 pH
 N/D

 Melting point / freezing point (°C)
 N/D

Boiling point/range 173 F (78 C) - 428 F (220 C)

Flash Point 108

Evaporation rate Slower Than Ether
Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 0.9 - 19.0

limits

Vapour Pressure, mmHg N/D

Vapour density Heavier than Air Relative density Not determined

Solubility in / Miscibility with water N/D

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

Decomposition temperature (°C)

Not determined

**Viscosity** Unknown

Explosive properties Not determined

Oxidising properties Not determined

9.2 Other information

VOC Content g/l: 780
Specific Gravity (g/cm3) 0.88

## 10. Stability and Reactivity

## 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

## 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Heat, flames and sparks.

#### 10.5 Incompatible materials

Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## 11. Toxicological Information

#### 11.1 Information on toxicological effects

**Acute Toxicity:** 

Oral LD50: N/D Inhalation LC50: N/D

Irritation: Unknown

Corrosivity: Skin Corrosion, category 1

Sensitization: Unknown

Repeated dose toxicity: Unknown

Carcinogenicity: Unknown

Mutagenicity: Unknown

Toxicity for reproduction: Unknown

STOT-single exposure: STOT, single exposure, category 3, NE & RTI

STOT-repeated exposure: Unknown

Aspiration hazard: Unknown

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
64742-95-6	AROMATIC HYDROCARBON	4700 mg/kg, oral, rat	Not Available	3670 ppm/8 hours, rat, inhalation	0.000	0.000
919-30-2	3- AMINOPROPYLTRIETHOXYSI LANE	1505 mg/kg, oral, rat	4117 mg/kg, dermal	Not Available	0.000	0.000
100-41-4	ETHYL BENZENE	3500 mg/kg rat, oral	>5000 mg/l, dermal rabbit	17.2 mg/L Inh, Rat, 4Hr	0.000	0.000

#### Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals.

## 12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown

12.2 Persistence and degradability: Unknown

**12.3 Bioaccumulative potential:** Unknown

**12.4 Mobility in soil**: Unknown

12.5 Results of PBT and vPvB The prod

assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects:

CAS-No.	<u>Chemical Name</u>	EC50 48hr	IC50 72hr	LC50 96hr
64742-95-6	AROMATIC HYDROCARBON	No information	No information	No information
919-30-2	3-AMINOPROPYLTRIETHOXYSILANE	331 mg/l (daphnia)	1000 mg/l (algae)	935 mg/l (Zebra Fish)
100-41-4	ETHYL BENZENE	1.8 mg/l (Daphnia Magna)	4.6 mg/l (Green Algae)	4.2 mg/l (Rainbow Trout)

Unknown

## 13. Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport Information

**14.1 UN number** UN3469

**14.2 UN proper shipping name** Paint, Flammable, Corrosive

Technical name N/A

14.3 Transport hazard class(es) 3

Subsidiary shipping hazard 8

14.4 Packing group III

14.5 Environmental hazards Unknown
 14.6 Special precautions for user Unknown
 EmS-No.: F-E, S-C
 14.7 Transport in bulk according to Annex II Unknown

of MARPOL 73/78 and the IBC code

## 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

## U.S. Federal Regulations: As follows -

#### **CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Specific target organ toxicity (single or repeated exposure)

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.ETHYL BENZENE100-41-4

#### **Toxic Substances Control Act:**

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<u>Chemical Name</u> <u>CAS-No.</u>

No TSCA 12(b) components exist in this product.

## U.S. State Regulations: As follows -

## New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical NameCAS-No.ORANOSILANE ESTER919-30-2

#### Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical NameCAS-No.ORANOSILANE ESTER919-30-2

#### **CALIFORNIA PROPOSITION 65**

WARNING: Cancer and Reproductive Harm -- www.P65Warnings.ca.gov

## International Regulations: As follows -

#### \* Canadian DSL:

All chemical ingredients included on inventory (DSL)

## 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## Other Information

#### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Reasons for revision

No Information

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.