

SAFETY DATA SHEET

1. Identification

Product identifier 2W Liquid Non-Nuclear

Other means of identification

Product code 800-0013

Recommended use Industrial Leak Sealant.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Team Industrial Services, Inc.

200 Hermann Drive, Alvin, Texas 77511 **Address**

Telephone Not available. Not available. E-mail

Emergency phone number CHEMTREC - 24 HOURS: 800-424-9300 (USA)

International: +1 703-527-3887 (Collect)

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3 Acute toxicity, oral **Health hazards** Category 4

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1 Germ cell mutagenicity Category 2

Category 2 (Liver, Kidney, Skin, Nervous Specific target organ toxicity, repeated

exposure

system) Category 3

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Not classified.

Category 3

OSHA defined hazards

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye

damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause damage to organs (Liver, Kidney, Skin, Nervous system) through prolonged or repeated

exposure. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after

handling. Avoid release to the environment.

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Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. In case of fire: Use alcohol-resistant foam, carbon dioxide or dry powder for extinction.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|-----------------------------------|------------|-------|
| Phenol, polymer with formaldehyde | 9003-35-4 | 50-80 |
| Ethanol | 64-17-5 | 10-25 |
| m-Cresol | 108-39-4 | 5-10 |
| Phenol | 108-95-2 | 1-5 |
| p-Cresol | 106-44-5 | 1-5 |
| 2,6-Xylenol | 576-26-1 | <1 |
| Hexamethylenetetramine | 100-97-0 | <1 |
| O-Ethylphenol | 90-00-6 | <1 |

Composition comments

All concentrations are in percent by weight.

4. First-aid measures

Inhalation

Move into fresh air and keep at rest. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

When cured: Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact

Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Only induce vomiting at the instruction of medical personnel. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Obtain medical attention and take along these instructions.

Most important symptoms/effects, acute and delayed

Symptoms include redness, itching and pain. May cause permanent damage if eye is not immediately irrigated. Sensitization. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Thermal burns: Flush with plenty of water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

No restrictions known.

Specific hazards arising from

the chemical

Solvent vapors may form explosive mixtures with air. 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. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions

Ventilate closed spaces before entering them. Containers should be cooled with water to prevent vapor pressure build up. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Evacuate area and fight fire from a safe distance. Stop leak if you can do so without risk. Move containers from fire area if you can do it without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

The product is flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Ensure adequate ventilation. Do not get in eyes. Avoid inhalation of vapors or mists. Avoid contact with skin. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Sweep up or vacuum up spillage and collect in suitable container for disposal. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in Section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Environmental manager must be informed of all major spillages.

7. Handling and storage

Precautions for safe handling

Use only with adequate ventilation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Persons susceptible for allergic reactions should not handle this product. Do not get in eyes. Avoid inhalation of vapors or mists. Avoid contact with skin. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not smoke and do not spray near a naked flame or other sources of ignition. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Take precautionary measures against static discharges. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Follow rules for flammable liquids. Keep away from heat, spark, open flames and other sources of ignition. Keep away from sources of ignition - No smoking. Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

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

| Components | Туре | Value | |
|-------------------------|------|------------|--|
| Ethanol (CAS 64-17-5) | PEL | 1900 mg/m3 | |
| | | 1000 ppm | |
| m-Cresol (CAS 108-39-4) | PEL | 22 mg/m3 | |
| | | 5 ppm | |
| p-Cresol (CAS 106-44-5) | PEL | 22 mg/m3 | |
| | | 5 ppm | |
| Phenol (CAS 108-95-2) | PEL | 19 mg/m3 | |
| | | 5 ppm | |

US. ACGIH Threshold Limit Values

| Components | Туре | Value | Form |
|-------------------------|------|----------|-------------------------------|
| Ethanol (CAS 64-17-5) | STEL | 1000 ppm | |
| m-Cresol (CAS 108-39-4) | TWA | 20 mg/m3 | Inhalable fraction and vapor. |

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| | | Туре | V | 'alue | Form |
|--|--|--|--|---|-------------------------------|
| p-Cresol (CAS 106-44-5) | | TWA | 2 | 0 mg/m3 | Inhalable fraction and vapor. |
| Phenol (CAS 108-95-2) | | TWA | 5 | ppm | • |
| US. NIOSH: Pocket Guide | e to Chemical Haz | zards | | | |
| Components | | Туре | V | alue | |
| Ethanol (CAS 64-17-5) | | TWA | | 900 mg/m3 000 ppm | |
| m-Cresol (CAS 108-39-4) | | TWA | | 000 ppm 0 mg/m3 | |
| | | | | .3 ppm | |
| p-Cresol (CAS 106-44-5) | | TWA | | 0 mg/m3 | |
| Db 1 (040 400 07 0) | | 0 - 11: | | .3 ppm | |
| Phenol (CAS 108-95-2) | | Ceiling | | 0 mg/m3 | |
| | | T\\/ \ | | 5.6 ppm | |
| | | TWA | | 9 mg/m3 ppm | |
| | | | Э | ρμπ | |
| logical limit values | | | | | |
| ACGIH Biological Exposu | ure Indices | | | | |
| Components | Value | Determinant | Specimen | Sampling Ti | me |
| Phenol (CAS 108-95-2) | 250 mg/g | Phenol with hydrolysis | Creatinine in urine | * | |
| * - " | 4b | | | | |
| * - For sampling details, ple | ease see the source | e document. | | | |
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Wear safety glasses with side shields (or goggles) and a face shield. Eye/face protection

Skin protection

Hand protection Wear suitable gloves. Butyl rubber gloves are recommended. Be aware that the liquid may

penetrate the gloves. Frequent change is advisable.

Other Wear appropriate clothing to prevent possibility of skin contact.

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limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If airborne concentrations are above the

applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards When material is heated, wear gloves to protect against thermal burns.

General hygiene considerations

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. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance Amber liquid with phenolic odor.

Physical state Liquid.

Form Viscous liquid.

Color Amber.
Odor Phenolic.

Odor threshold 0.003 - 5 ppm (m-Cresol)

pH Not available.Melting point/freezing point Not applicable.Initial boiling point and boiling Not applicable.

range

Flash point 78.0 °F (25.6 °C) ASTM D3278 Setaflash E

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Slight.

Partition coefficient (n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature > 1200 °F (> 648.9 °C) When cured

Viscosity Not available.

Other information

Flammability Flammable liquid and vapor.

Flash point class Flammable IC

10. Stability and reactivity

ReactivityThe product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions
Conditions to avoid

Flames and sparks. Avoid static discharge and uncontrolled exposure to high temperatures.

Contact with incompatible materials.

Incompatible materials Strong oxidizers, strong acids, and strong bases. Strong reducing agents.

Hazardous decomposition

products

At elevated temperatures: Carbon oxides. Formaldehyde. Nitrogen oxides (NOx).

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11. Toxicological information

Information on likely routes of exposure

In high concentrations, vapors may be irritating to the respiratory system. May cause lung edema.

When cured: Vapors, spray or mists may be very irritating or corrosive to the respiratory system.

Skin contactCauses skin irritation. May cause an allergic skin reaction. May be harmful in contact with skin.

The product contains components which may penetrate skin.

Eye contact Causes severe eye damage.

Ingestion Harmful if swallowed. May cause central nervous system depression. May cause blood damage.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms include redness, itching and pain. May cause permanent damage if eye is not immediately irrigated. Sensitization. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Prolonged exposure may cause chronic

effects.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May be harmful in contact with skin.

| Components | Species | Test Results |
|-------------------------|---------|--------------------|
| Ethanol (CAS 64-17-5) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 39 g/m3, 4 Hours |
| Oral | | |
| LD50 | Rat | 7000 - 11000 mg/kg |
| m-Cresol (CAS 108-39-4) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 620 mg/kg |
| Oral | | |
| LD50 | Rat | 242 mg/kg |
| p-Cresol (CAS 106-44-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 300 mg/kg |
| Oral | | |
| LD50 | Rat | 207 mg/kg |
| Phenol (CAS 108-95-2) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 850 mg/kg |
| Oral | | |
| LD50 | Rat | 317 mg/kg |
| | | |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization No data available.

Skin sensitizationMay cause an allergic skin reaction.Germ cell mutagenicitySuspected of causing genetic defects.

Carcinogenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Phenol (CAS 108-95-2) 3 Not

NTP Report on Carcinogens

3 Not classifiable as to carcinogenicity to humans.

Not listed.

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

No data available. Reproductive toxicity Specific target organ toxicity -

single exposure

No data available.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (Liver, Kidney, Skin, Nervous system) through prolonged or

repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

Chronic effects Danger of serious damage to health by prolonged exposure. Repeated absorption may cause

disorder of central nervous system, liver, kidneys and blood. When cured: Phenolic resin releases formaldehyde and formaldehyde has carcinogenic potential and is a known skin and respiratory

sensitizer.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|----------------------|----------------------|---|----------------------------|
| Ethanol (CAS 64-17-5 |) | | |
| Aquatic | | | |
| Fish | LC50 | Pimephales promelas | 13480 mg/l, 96 hours |
| m-Cresol (CAS 108-39 | 9-4) | | |
| Aquatic | | | |
| Crustacea | EC50 | Scud (Gammarus fasciatus) | 7 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 8.9 mg/l, 96 hours |
| p-Cresol (CAS 106-44 | -5) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 7.7 mg/l, 48 hours |
| Fish | LC50 | Fish (Lepidocephalichthyes guntea) | 6.15 - 7.96 mg/l, 96 hours |
| Phenol (CAS 108-95-2 | 2) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia obtusa) | 4.7 - 6.4 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 7.5 - 14 mg/l, 96 hours |
| | Intition - No doto o | u ellele | |

Persistence and degradability No data available. **Bioaccumulative potential** No data available. Partition coefficient n-octanol / water (log Kow)

Phenol (CAS 108-95-2) 1.46 m-Cresol (CAS 108-39-4) 1.96 p-Cresol (CAS 106-44-5) 1.94

Mobility in soil Expected to be slightly to moderately mobile in soil.

Mobility in general The product is slightly soluble in water.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

Disposal recommendations are based on material as supplied. Disposal must be in accordance **Disposal instructions**

> with current applicable laws and regulations, and material characteristics at time of disposal. Dispose of this material and its container to hazardous or special waste collection point.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

D026: Waste Cresol

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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14. Transport information

DOT

UN1866 **UN number UN proper shipping name** Resin solution

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Ш **Packing group**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B1. B52. IB3. T2. TP1 Special provisions

150 Packaging exceptions Packaging non bulk 173 Packaging bulk 242

IATA

UN1866 **UN** number **UN proper shipping name** Resin solution

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1866

UN proper shipping name **RESIN SOLUTION**

Transport hazard class(es)

3 **Class** Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant No. **EmS** F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not applicable.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

m-Cresol (CAS 108-39-4) LISTED p-Cresol (CAS 106-44-5) LISTED Phenol (CAS 108-95-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

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SARA 302 Extremely hazardous substance

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|---------------|------------|------------------------------------|--------------------------------------|--|--|
| Phenol | 108-95-2 | 1000 | | 500 | 10000 |

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---------------|------------|----------|--|
| m-Cresol | 108-39-4 | 5-10 | |
| Phenol | 108-95-2 | 1-5 | |
| p-Cresol | 106-44-5 | 1-5 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Yes

m-Cresol (CAS 108-39-4) p-Cresol (CAS 106-44-5) Phenol (CAS 108-95-2)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Ethanol (CAS 64-17-5) m-Cresol (CAS 108-39-4) p-Cresol (CAS 106-44-5) Phenol (CAS 108-95-2)

US. New Jersey Worker and Community Right-to-Know Act

Ethanol (CAS 64-17-5) m-Cresol (CAS 108-39-4) p-Cresol (CAS 106-44-5) Phenol (CAS 108-95-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Ethanol (CAS 64-17-5) m-Cresol (CAS 108-39-4) p-Cresol (CAS 106-44-5) Phenol (CAS 108-95-2)

US. Rhode Island RTK

m-Cresol (CAS 108-39-4) p-Cresol (CAS 106-44-5) Phenol (CAS 108-95-2)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Formaldehyde (CAS 50-00-0)

International Inventories

Country(s) or region On inventory (yes/no)* 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).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 15-April-2015 **Revision date** 08-February-2016

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Yes

Further information HMIS® is a registered trade and service mark of the NPCA.

J - Goggles, Gloves, Apron, Dust, Vapor Respirator

HMIS® ratings Health: 3*

Flammability: 3 Physical hazard: 0

References ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer Team Industrial Services, Inc. cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the

product, and to assume liability for loss, injury, damage or expense due to improper use.

This SDS contains revisions in the following section(s):

1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16.

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