

**(MATERIAL) SAFETY DATA SHEET**  
**Pipeline Repair and Hot Tapping Epoxy Grout**  
**Winter Grade (NSL-PR-WIG-001)**

**SECTION 1: Identification of the substance/mixture and of the company/ undertaking**

**1.1 PRODUCT IDENTIFIER**

**Product Name** : Pipeline Repair and Hot Tapping Epoxy Grout – WINTER GRADE  
**Product ID** : NSL-PR-WIG-001  
**Registration number** : Not available  
**Other means of identification** : Not available

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

**1.2.1 Relevant use:**

A 2-part chemical solutions c/w a colour powder pigment component when mixed is suitable to be used in repair or hot tapping of pipeline applications. This consists of a viscous resin solution, a pourable hardener fluid and an inert colour pigment powder. The resin is based on Bisphenol A epichlorohydrin (Average molecular weight  $\leq 700$ ) mixed with high density natural fillers. The hardener fluid is primarily based on trimethylhexamethylenediamines reactive hardener solution.

**1.2.2 Uses advised against**

All uses not specified in Section 1.2.1

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**

**Namco Solutions Limited**  
Unit F9, Cumberland Trading Estate  
Cumberland Road, Loughborough  
Leicestershire LE11 5DF  
United Kingdom  
Tel: +44 (0)1509 261 979  
Mob: +44 (0)7877 632 078

Email: [enquiries@namco-solutions.com](mailto:enquiries@namco-solutions.com)  
Website: [www.namco-solutions.com](http://www.namco-solutions.com)

**1.4 EMERGENCY TELEPHONE NUMBER:**

- For urgent medical advice dial +44(0) 7877 632 078 – Office Hours only (08.30 to 17.00 GMT)
- For urgent medical treatment telephone number should be stated within the user's pre-approved installation instruction
- For urgent medical treatment within United Kingdom dial 999
- For urgent medical treatment outside United Kingdom dial National Emergency Medical Services (For examples dial 911 for USA, 112 for Europe and 995 for Singapore)

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**SECTION 2: Hazards identifications**

**2.1 RESIN COMPONENT**

**2.1.1 Hazard Statements**

- Harmful by inhalation and not suitable for human consumption
- Irritant to eyes and skin
- Cause sensitisation by skin contact.
- Harmful to aquatic life with long lasting effects

**2.1.2 Hazard Classifications**

Classifications for the resin solution are in accordance with Directive (EC) No. 1272/2008: (Descriptions of these symbols and phrases are in SECTION 16):

- Acute Tox. 2, H411
- Skin Corr. 1C, H314
- Skin Irrit. 2 H315
- Skin Irrit. 2 H317
- Eye Irrit. 1 H319
- Aquatic Chronic 2, H412

Symbols for the resin solution are in accordance with Directive (EC) No. 67/548/EEC: (Descriptions of these symbols and phrases are in SECTION 16):

- Xi
- R Phrases of R36/38, R43 and R52/53

**2.1.3 Hazard Pictograms:**



**2.1.4 Signal word**

Warning

**2.2 HARDENER SOLUTION**

**2.2.1 Hazard Statements**

- Harmful if swallowed
- Harmful in contact with eyes and skin
- Cause severe skin burns and eye damage
- May cause an allergic skin reaction if contact.
- Harmful to aquatic life with long lasting effects

**2.2.2 Hazard Classifications**

The hardener solution is classified as dangerous according to Directive (EC) No. 1272/2008: (Descriptions of these symbols and H statements are in SECTION 16):

- Acute Tox. 4 H302
- Skin Corr. 1C H314
- Skin Irrit. 2 H317

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- Eye Dam. 1 H318
- Eye Irrit. 2, H319
- Harmful if inhaled H332
- Aquatic Chronic 3, H412
- STOT SE 3, H335 (Respiratory tract irritation)

Symbols for the hardener solution component are in accordance with Directive 67/548/EEC: (Descriptions of these symbols and phrases are in SECTION 16):

- C
- R Phrases of R20/21/22, R34, R43.and R52/53

**2.2.3 Hazard Pictograms:**



**2.2.4 Signal word**  
Danger

**2.3 COLOUR PIGMENT COMPONENT**

**2.3.1 Hazard Statements**

- Harmful by inhalation and not suitable for human consumption

**2.3.2 Hazard Classifications**

Classifications for the blue pigment are in accordance with Directive (EC) No. 1272/2008:

- Not classified as dangerous for supply/use.
- Label elements – PIGMENT POWDER RAL 5003

**2.3.3 Hazard Pictograms**

- None required

**2.3.4 Signal Word:**

- None required

**SECTION 3: Compositions and information on ingredients**

**3.1 RESIN COMPONENT CONTAINS:**

- Bisphenol A epichlorohydrin (CAS number 25068-38-6) (EC500-033-5) (Average MW ≤ 700)
- Formaldehyde oligomeric product with 1-chloro2,3-epoxypropane and phenol (CAS number 9003-36-5) (EC number 500-006-8)
- 1,6-bis(2,3-epoxypropoxy)hexane - (CAS number 16 096-31-4) (EC 240-260-4)
- Benzyl Alcohol (CAS number 100-51-6) (EC 202-859-9)
- Silica sand and light fillers. Both fillers are inert

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**3.2 HARDENER SOLUTION CONTAINS:**

- This is a trimethylhexamethylenediamines solution is a mixed compound containing:
  - Trimethylhexane-1, 6-diamine (CAS number 25620-58-0) (EC: 247-134-8)
  - Toluene-4-sulphonic acid (CAS number 104-15-4) (EC: 203-180-0)

**3.3 COLOUR PIGMENT COMPONENT CONTAINS:**

- Blue pigment solid powder (RAL 5003)
- Not classified as dangerous for supply/use by Regulation (EC) No. 1272/2008

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**SECTION 4: First aid measures**

The following first aid measures apply to both resin and hardener components. It is important that first aiders are familiar with these measures before any treatments are carried out.

**4.1 DESCRIPTIONS OF FIRST AID MEASURES**

<b>SKIN or HAIR CONTACT</b> (S26 / S28)	<ul style="list-style-type: none"> <li>• Take off immediately all contaminated clothing.</li> <li>• Wipe off excess with disposable towels.</li> <li>• Rinse skin with plenty of clean water (Shower if necessary)</li> <li>• Seek medical attention if any signs of skin burn or blistering</li> </ul>
<b>EYE CONTACT</b> (S37 / S39)	<ul style="list-style-type: none"> <li>• Rinse immediately with clean water for at least 15 minutes, occasionally lifting the upper and lower eyelids. (Rinse water should be between 20°C to 30°C)</li> <li>• Check for and remove any contact lenses</li> <li>• Seek urgent medical attention</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>• Apply First Aid if not breathing or breathing is irregular. It may be dangerous to the rescuer to give mouth-to-mouth resuscitation.</li> <li>• If unconscious, place victim in recovery position and get medical attention immediately.</li> <li>• If recovery is not rapid or symptoms persist then seek medical attention immediately.</li> <li>• The exposed victim may need to be kept under medical surveillance for 48 hours.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Wash out mouth with clean water</li> <li>• Remove dentures if any</li> <li>• Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>• If victim is conscious then rinse his mouth repeatedly with plenty of water. Afterwards, drink in small quantities to clear then increase quantity to at least 1 litres of water (Note: never give anything by mouth to an unconscious person)</li> <li>• If vomiting occurs, the head should be kept low so that vomit does not enter the lung.</li> </ul>

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	<ul style="list-style-type: none"> <li>• If unconscious, place in recovery position and seek medical attention immediately. Maintain an open airway, loosen tight clothing such as collar, tie, belt or waistband.</li> <li>• Seek urgent medical attention.</li> </ul>
<b>PROTECTION OF RESCUERS AND FIRST AIDERS (S36/S37/S39)</b>	<ul style="list-style-type: none"> <li>• No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear appropriate mask or self-contained breathing apparatus.</li> <li>• It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</li> <li>• Wash contaminated clothing thoroughly with water before removing or wear gloves.</li> </ul>

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

**4.2.1 Potential acute health effects**

- Eye contact causes serious eye damage
- If inhaled, the material may give off gas, vapour or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure
- Skin contact may cause burns and/or allergic skin reaction
- Harmful if swallowed which may cause burns to mouth, throat and stomach

**4.2.2 Over-exposure signs/symptoms**

- Eye contact may give adverse symptoms such as pain, watering and redness
- Skin contact may give adverse symptoms such as pain or irritation, redness and blistering
- Ingestion may give adverse symptoms such as stomach pains and irregular breathings.

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION and SPECIAL TREATMENT**

**4.3.1 Notes to Physician**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**4.3.2 Notes to Physician**

Symptomatic treatment and supportive therapy as indicated. Following severe exposure, the patient should be kept under medical review for at least 48 hours.

**SECTION 5: Firefighting measures**

The following firefighting measures apply to both resin and hardener components. It is important that firefighters are familiar with these measures before any actions are carried out.

Fire Extinguishers:	<ul style="list-style-type: none"> <li>• Use extinguishers that are appropriate to local circumstances and the surrounding environment</li> <li>• Carbon dioxide, Foam and Dry powder</li> <li>• Do not use water jet extinguishers</li> </ul>
Exposure Hazards:	<ul style="list-style-type: none"> <li>• In a fire or if heated, a pressure increase will occur and the container may burst.</li> </ul>

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	<ul style="list-style-type: none"> <li>The unmixed solutions are harmful to aquatic life with long lasting effects. Therefore, fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.</li> </ul>
Hazardous Thermal Decomposition Products	Decomposition products may include: carbon dioxide, carbon monoxide, nitrogen oxides and sulphur oxides

**5.1 ADVICE FOR FIREFIGHTERS:**

- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training.
- Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents

**SECTION 6: Accidental release measures**

The following accidental release measures apply to both resin and hardener components. It is important that emergency responders are familiar with these measures before any actions are carried out.

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**6.1.1 For non-emergency personnel**

- No action shall be taken involving any personal risk or without suitable training
- Evacuate to a dedicated safe area
- Keep unnecessary and unprotected personnel from entering
- Do not touch or walk through spilt material.
- Avoid contact with skin, eyes and clothing
- Do not breathe vapour or mist.
- Avoid ignition sources
- Provide adequate ventilation.
- Wear appropriate respirator when ventilation is inadequate
- Wear appropriate personal protective equipment

**6.1.2 For emergency responders**

- If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
- See also the information in "For non-emergency personnel"

**6.2 ENVIRONMENTAL PRECAUTIONS**

- Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Inform the relevant authorities if the product has caused environmental pollution. Water polluting material may be harmful to the environment if released in large quantities.

**6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

- Stop leak if without risk.
- Move containers from spilt areas.

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- Approach the release from upwind.
- Prevent entry into sewers, water course, basements or confined areas
- Contain and collect spillage with non-combustible, absorbent materials e.g. dry sand or soil and place in container for disposal according to local regulations.
- Mop up with absorbent, dry inert material and place in an appropriate waste disposal container.
- Dispose of via a licensed waste disposal contractor.

## **SECTION 7: Handling and storage**

The following handling and storage instructions apply to both resin and hardener components. Materials have a shelf life of 12 months from specified date of manufacture.

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

#### **7.1.1 Protective Measures:**

- Always wear appropriate personal protective equipment (see Section 8)
- Do not get in eyes or on bare skin or clothing
- Do not breathe vapour or dust
- Do not ingest
- Avoid release to environment
- Ensure good ventilation.
- If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.
- Always keep in original container and kept tightly closed when not in use.
- Empty containers may contain hazardous residue, care should be taken during disposal/recycling
- Do not reuse container without manufacturer's approval

#### **7.1.2 Advice on General Occupational Hygiene:**

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Workers should wash hands and face before eating and drinking.
- Remove contaminated clothing and protective equipment before entering eating areas.

### **7.2 CONDITIONS FOR SAFE STORAGE:**

- Store in accordance with local regulations
- Store at room temperature between 5°C and 20°C
- Store in original undamaged containers securely closed
- Keep material away from sources of heat and ignition
- Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink.
- Keep away from oxidising materials.
- Keep containers upright, tightly closed and sealed until ready for use
- Containers that have been opened must be carefully released and kept upright to prevent leakage.
- Do not store in unlabelled containers.
- Use appropriate containment to avoid environmental contamination.

## **SECTION 8: Exposure control and personal protection**

The following exposure control and personal protection apply to both resin and hardener components.

### **8.1 TECHNICAL PROTECTIVE MEASURES**

- No special technical protective measures are necessary.

### **8.2 OCCUPATIONAL EXPOSURE LIMITS**

- No exposure limits if operatives are in full compliance with approved installation procedure suitable for pipeline repair and hot tapping applications.

### **8.3 EXPOSURE CONTROLS**

#### **8.3.1 Respiratory protection**

- Not necessary if work is performed in well ventilated area.
- In case of inadequate ventilation, wear respiratory protection. Respiratory protective equipment must be the correct fit and be used and maintained properly.

#### **8.3.2 Hygiene measures**

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, drinking, using the lavatory and at the end of the working period
- Contaminated clothing should not be allowed out of the workplace
- Wash contaminated clothing before reusing.
- Handle in accordance with good industrial hygiene and safety practices

#### **8.3.3 Eye/Face protection**

- Ensure that eyewash stations are available and close to the workstation location.
- Goggles/safety eyewear to an approved standard must be used.
- When a risk assessment indicates potential for splashing, splash goggles and/or full-face shield may be required.

#### **8.3.4 Hand protection**

- Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.
- Remove gloves with care avoiding skin contamination
- Suitability and durability of a glove is dependent on usage such as frequency and duration of contact, chemical resistance of glove material and dexterity.
- Always seek advice from glove suppliers.

#### **8.3.5 Skin and overall body protection**

- Personal protective equipment for the body (e.g. overalls and closed footwear) should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this material

#### **8.3.6 Environment exposure controls**

- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environments or environmental protection legislation



## SECTION 9: Physical and chemical properties

### 9.1 Resin component

- Density: Approximately 1.6 g/cm<sup>3</sup>
- Fluid (High viscous)
- White / creamy in colour with minor characteristic odour
- pH-Value has not been measured
- Flash point is in excess of 100°C and not self-igniting and therefore does not present explosion hazard
- Low vapour at room temperature
- The decomposition temperature is in excess of 200°C

### 9.2 Hardener component

- Density: Approximately 1 g/cm<sup>3</sup>
- Fluid (Low viscous)
- Clear transparent in colour with mild characteristic odour
- pH-Value has not been measured
- Flash point is in excess of 100°C and not self-igniting and therefore does not present explosion hazard
- Low vapour at room temperature
- The decomposition temperature is in excess of 200°C

### 9.3 Pigment component

- Dry solid inorganic powder
- Stable at room temperature and at recommended storage conditions
- Flash point is in excess of 75°C and not self-igniting and therefore does not present explosion hazard

## SECTION 10: Stability and reactivity

- Both resin and hardener solutions are chemically stable at ambient conditions.
- Under normal conditions of storage and use, hazardous reactions or self-ignition will not occur.
- Under normal conditions of storage and use, hazardous decomposition products (such as carbon oxides, noxious and toxic fumes) should not be produced. Hazardous decomposition products of the hardener compound may include ammonia, carbon dioxide, carbon monoxide, nitrogen oxides and sulphur oxides.
- Keep away from heat and sources of ignition. If the materials are involved in a fire, hazardous oxides of carbon or nitrogen or other hazardous vapours may be released.

## SECTION 11: Toxicological information

- Raw materials of resin component tested on Guinea pigs, rabbits and mice found to cause irritant to eyes and skin and can cause sensitisation by skin contact. If swallowed may cause stomach pain.
- Raw materials of hardener component tested on Guinea pigs, rabbits and mice found to be harmful in contact with eyes and skin and cause burns if swallowed.

## **SECTION 12: Ecological information**

- Prevent contamination of soil, drains or surface water. Do not empty/rinse containers into drains as they may contain substances which is harmful to organic life
- Large quantities release of materials is harmful to aquatic organisms.
- No other specific information available.

## **SECTION 13: Disposal considerations**

### **13.1 METHOD OF DISPOSAL:**

- Unmixed resin and hardener within this container can be thoroughly mixed and allowed to cure prior to disposal. Once fully cured epoxy grout can be classified as inert material and disposed of in normal landfill waste.
- Uncontaminated packaging should be treated as inert waste or as recycling materials.
- The generation of waste should be avoided or minimised whenever possible.
- All packaging of this product is recyclable and therefore all waste material should be recycled whenever possible.
- Disposal of each component and any by-products should at all times comply with the requirements of environment protection and waste disposal legislation and any regional local authority requirements.
- Always dispose of surplus and non-recyclable product via a licensed waste disposal contractor.
- Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Incineration or landfill should only be considered when recycle is not feasible










### **13.2 SPECIAL CONSIDERATIONS:**

- The material and its container must be disposed of in safe way.
- Care should be taken when handling emptied containers that have not been cleaned or rinsed out.
- Empty containers or bottles may retain some product residues.
- Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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


**SECTION 14: Transport information**

**14.1 TRANSPORT INFORMATION FOR RESIN COMPONENT:**

	<b>ADR/RID/ADN</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1.1 UN Number</b>	UN 3082	UN 3082	UN 3082
<b>14.1.2 UN Proper Shipping Name</b>	Environmentally Hazardous Substance, Liquid, n.o.s. (Bisphenol A epichlorohydrin)	Environmentally Hazardous Substance, Liquid, n.o.s. (Bisphenol A epichlorohydrin)	Environmentally Hazardous Substance, Liquid, n.o.s. (Bisphenol A epichlorohydrin)
<b>14.1.3 Transport Hazard Class</b>	9 	9 	9 
<b>14.1.4 Packing Group</b>	III	III	III
<b>14.1.5 Environmental Hazards</b>	Yes 	Yes 	Yes 
<b>14.1.6 Marine Pollutant</b>	N/A	Yes	N/A
<b>14.1.7 Limited Quantity (if packed under LQ provisions of relevant model regulations)</b>	5L 	5L 	5L 
<b>14.1.8 Additional Information:</b>	Transport Category 3 Tunnel Code E Classification Code - M6. SP 375	EMS/FA: F-A, S-B	<b>PI Y964</b> - 30 kg G max <b>PI 964</b> - 450 Litre max
<b>14.1.9 Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	N/A	N/A	N/A

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**14.2 TRANSPORT INFORMATION FOR HARDENER COMPONENT:**

	ADR/RID/ADN	IMDG	IATA
<b>14.2.1 UN Number</b>	UN 2327	UN 2327	UN 2327
<b>14.2.2 UN Proper Shipping Name</b>	Trimethyl-hexamethylenediamines	Trimethyl-hexamethylenediamines	Trimethyl-hexamethylenediamines
<b>14.2.3 Transport Hazard Class</b>	8 	8 	8 
<b>14.2.4 Packing Group</b>	III	III	III
<b>14.1.5 Environmental Hazards</b>	No	No	No
<b>14.2.6 Marine Pollutant</b>	N/A	N0	N/A
<b>14.2.7 Limited Quantity (if packed under LQ provisions of relevant model regulations)</b>	5L 	5L 	5L 
<b>14.2.8 Additional Information:</b>	Transport Category 3 Tunnel Code E Classification Code – C7	EMS/FA: F-A, S-B	<b>PI 852</b> - 5 litre max <b>PI Y841</b> - 1 litre max
<b>14.2.9 Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	N/A	N/A	N/A

**SECTION 15: Regulatory information**

**15.1 SAFETY, HEALTH AND ENVIRONMENT REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**  
**EU Regulation (EC) No. 1907/2006 (REACH)**

This product is compliant with the REACH Regulation EC 1907/2006. All raw materials to make up this product have been pre-registered by the manufacturers in or imports into the European Economic Area (EEA)

**Annex XIV – List of substances subject to authorisation**

None of the components are listed in the Annex XIV.

**Substances of very high concern**

None of the components are listed.

**Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

Not applicable.

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Other EU regulations

Europe Inventory	: All components are listed or exempted
Black List Chemicals	: Not listed
Priority List Chemicals	: Not Listed
Integrated pollution prevention and control list (IPPC) – Air	: Listed
Integrated pollutions prevention and control list (IPPC) – Water	: Not Listed

Other National Regulations

Australia inventory (AICS)	: All components are listed or exempted
Canada inventory	: All components are listed or exempted
China inventory (IECSC)	: All components are listed or exempted
Japan inventory	: All components are listed or exempted
Korea inventory	: All components are listed or exempted
New Zealand inventory (NZioc)	: All components are listed or exempted
Philippines inventory (PICCS)	: All components are listed or exempted
United States inventory (TSCA 8b)	: All components are listed or exempted
Chemical Weapons Convention List Schedule I chemicals	: All components are listed or exempted
Chemical Weapons Convention List Schedule II chemicals	: All components are listed or exempted
Chemical Weapons Convention List Schedule III chemicals	: All components are listed or exempted

**SECTION 16: Other information**

**16.1 CHEMICAL SAFETY ASSESSMENT**

This product contains substances for which Chemical Safety Assessments are still required by the end user

**16.2 ABBREVIATIONS AND ACRONYMS**

ADN	= Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation interieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	= Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	= Acute Toxicity Estimate
CAS	= Chemical Abstracts Service (division of the American Chemical Society)
CLP	= Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272 / 2008]
DNEL	= Derived No Effect Level
EUH statement	= CLP – specific Hazard statement
EINECS	= European Inventory of Existing Commercial Chemical Substances
ELINCS	= European List of Notified Chemical Substances
GHS	= Globally Harmonised System of Classification and Labelling of Chemicals
IATA	= International Air Transport Association
IATA-DGR	= Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO	= International Civil Aviation Organisation
IMDG	= International Maritime Code for Dangerous Goods
n.o.s.	= Not otherwise specified
RID	= Regulations concerning the Intl Transport of Dangerous Goods by Rail

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**16.3 FULL TEXT OF ABBREVIATED H STATEMENTS**

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation (Respiratory tract irritation)
H412	Harmful to aquatic life with long lasting effects

**16.4 FULL TEXT OF CLASSIFICATIONS [CLP / GHS]**

Acute Tox. 4, H302	ACUTE TOXICITY (oral) – Category 4
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD – Category 3
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Skin Corr. 1C, H314	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

**16.5 FULL TEXT OF ABBREVIATED R PHRASES**

R20 / 21	Harmful in contact with skin, eyes and inhalation
R22	Harmful if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the environment.

**16.6 FULL TEXT OF CLASSIFICATIONS [DSD / DPD]**

C	Corrosive
Xi	Irritant

**16.7 FULL TEXT OF ABBREVIATED S PHRASES**

S26	When contact with skin, wash immediately with plenty of water and seek medical attention
S28	When contact with skin, wash immediately with plenty of soap & water
S37 / 39	Wear suitable gloves, eye and face protection
S36 / 37 / 39	Wear suitable clothing, gloves, eye and face protection

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (REACH), Annex II – United Kingdom (UK)

**16.8 (M)SDS DOCUMENT REFERENCE:**

MSDS No.	NSL-18-01-01-MSDS-WIG-01- (REVISION .03)
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**(MATERIAL) SAFETY DATA SHEET**  
**Pipeline Repair and Hot Tapping Epoxy Grout**  
**Winter Grade (NSL-PR-WIG-001)**

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