

**(MATERIAL) SAFETY DATA SHEET**  
**Pipeline Repair and Hot Tapping**  
**Epoxy Cleaning Solvent (NSL-PR-SOLV-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 Cleaning Solvent  
**Product ID** : NSL-PR-SOLV-001  
**Registration number** : REACH 01-2119475445-32-XXXX  
**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 chemical solution to be used for cleaning uncured epoxy in mixing and pumping equipment used in pipeline repair or hot tapping applications.

**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)

## SECTION 2: Hazards identifications

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### 2.1.1 Hazard Statements

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF INHALED: Call a POISON CENTER or doctor/physician if affected person feels unwell.
- IF on SKIN (or hair): Take off all contaminated clothing. Rinse skin with water [or shower].
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### 2.1.2 Hazard Classifications

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

- Acute toxicity, Category 4                      H332: Harmful if inhaled
- Eye irritation, Category 2B                      H320 Causes eye irritation

#### 2.1.3 Hazard Pictograms:



#### 2.1.4 Signal word

WARNING

## SECTION 3: Compositions and information on ingredients

### 3.1 SUBSTANCE CONTAINS:

- Not applicable as this product is a mixture

### 3.2 MIXTURE:

- Hazardous ingredients and impurities
  - Reaction mass of following ingredients (EC No. 906-170-0):
    - Dimethyl Glutarate (CAS No. 1119-40-0)
    - Dimethyl Succinate (CAS No. 106-65-0)
    - Dimethyl Adipate (CAS No. 627-93-0)
  - Methanol (CAS No. 67-56-1) (EC No. 200-659-6) Less than 0.2%
- The specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret.

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## SECTION 4: First aid measures

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> (S27 / 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. Do NOT induce vomiting.</li><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</b> (S36/S37/S39)	<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>

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

This material is not considered hazardous

**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 to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- 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
- 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**

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>• Water spray, carbon dioxide, Foam and Dry powder</li> <li>• Do not use high volume water jet (burning material will float)</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> <li>• 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	<ul style="list-style-type: none"> <li>• Decomposition products may include carbon dioxide.</li> </ul>

**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

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.
- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Inform the relevant authorities if the product has caused environmental pollution.

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

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

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, on bare skin or clothing

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- Do not breathe vapour or dust
- Do not ingest
- Avoid uncontrollable splashes
- 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 and drinking 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 food, drink and incompatible materials such as strong acids, oxidizing agents and reducing agents. , .
- 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.

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

**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

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**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.
- Observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves must be inspected prior to use.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- 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.

**8.3.7 Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
  - Do not store, use, and/or consume foods, beverages or cosmetics in areas where this material is stored.
  - Wash hands and face carefully before eating and drinking.
- Use clean, well maintained personal protection equipment.,

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Clear Liquid
- Colourless with minor characteristic sweet odour
- Density: Approximately 1.0915 g/cm<sup>3</sup>
- Viscosity: 2.85 mPa.s @ 20 °C
- pH-Value: 5.0 – 7.0 (5% m/v) aqueous solutions
- Freezing point: < – 50 °C
- Flash point is in excess of 99°C and not self-igniting and therefore does not present explosion hazard
- Boiling point range > 200 °C
- Autoignition temperature is in excess of > 400 °C
- Vapour pressure is 0.094 hPa at 25 °C with no available data of flammable solid, gas or liquids

## SECTION 10: Stability and reactivity

- 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 gases (such as carbon oxides, noxious and toxic fumes) and other polymerization products should not be produced.
- 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

### Information on toxicological effects:

- LD50 (oral,rat): >5000 mg/kg
- LCLo (inhalation) : >11 mg/l/4h
- LD50 (skin,rat): >2000 mg/kg
- Inhalation: Not hazardous and may cause irritation
- Contact with eyes: May cause irritation
- Ingestion: Not classified as hazardous but the ingestion of significant quantities should be referred to a physician
- Carcinogenicity: No evidence of carcinogenic effects in man
- Teratogenicity: No evidence of reproductive effects
- Mutagenicity: No evidence of mutagenic effects



## SECTION 12: Ecological information

### 12.1 Toxicity:

- LC50 (fish): 18-24 mg/l (96 hr)
- EC50 (Daphnia magna): 112-150 mg/l (48 hr)
- IC50 (algae): >85 mg/l (72 hr)
- Harmful to aquatic organisms

### 12.2 Persistence and degradability

- Readily biodegradable

### 12.3 Bioaccumulative potential

- Low bioaccumulation potential

### 12.4 Mobility in soil

- Insoluble in water
- This substance is involatile

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Other adverse effects

- No other specific information available.

## SECTION 13: Disposal considerations

Prevent contamination of soil, drains or surface water. Do not empty/rinse containers into drains.

### 13.1 METHOD OF DISPOSAL:

- Material and its containers (partially filled or empty) must be disposed of as hazardous waste.
- 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 by an approved method could be considered but only when recycle is not feasible

### 13.2 SPECIAL CONSIDERATIONS:

- 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:

	ADR/RID/ADN	IMDG	IATA
14.1.1 UN Number	Not regulated	Not regulated	Not regulated
14.1.2 UN Proper Shipping Name	Not regulated	Not regulated	Not regulated
14.1.3 Transport Hazard Class	Not regulated	Not regulated	Not regulated
14.1.4 Packing Group	Not regulated	Not regulated	Not regulated
14.1.5 Environmental Hazards	Not regulated	Not regulated	Not regulated
14.1.6 Marine Pollutant	Not regulated	Not regulated	Not regulated
14.1.7 Limited Quantity (if packed under LQ provisions of relevant model regulations)	Not regulated	Not regulated	Not regulated
14.1.8 Additional Information:	Not regulated	Not regulated	Not regulated
14.1.9 Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

## 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.

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

Not applicable.

#### 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
RID	= Regulations concerning the Intl Transport of Dangerous Goods by Rail

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**16.3 FULL TEXT OF ABBREVIATED H STATEMENTS**

H320	Causes eye irritation
H332	Harmful if inhaled

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

Eye Irrit. 2, H320	CAUSES EYE IRRITATION - Category 2
Harmful if inhaled, H332	Acute toxicity, Category 4

**16.5 FULL TEXT OF ABBREVIATED S PHRASES**

S27	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)

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

MSDS No.	NSL-18-05-01-MSDS-SOLV-01- (REVISION .01)
Date of issue	25 May 2018
Revision	01

**16.7 NOTICE TO READER**

- While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at date of publication, nothing herein is to be construed as a warranty, express, or otherwise.
- In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose.
- The product may present hazards and should be used with caution, while certain hazards are described in this publication, no guarantee is made that these are the only hazard that exist.
- The information contained in this security / safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.
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