

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: Liquid Release Agent
- Chemical Name: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
- Synonyms: C9-C11 n-PARAFFINS
- EC Number: 919-857-5
- REACH Registration Number: 01-2119463258-33-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Allowing the clean detachment of imprinting mats from the surface of freshly placed Concrete
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: PICS Ltd
- Address of Supplier: Unit 2 & 4
Red Shute Hill Ind Estate
Hermitage
Newbury
Berkshire
RG18 9QL
UK
- Telephone: +44 (0) 1635 202224
- Email: Info@picsuk.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1635 202224
(office hours only Mon– Fri 08:00 – 17:30)
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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

- Signal Word: Danger
- Hazard statements
H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H336 - May cause drowsiness or dizziness.
- Precautionary statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SECTION 2: Hazards identification (....)

- P243 - Take action to prevent static discharges.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 - Do NOT induce vomiting.
- Supplemental Hazard Information (EU)
None

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

SECTION 3: Composition/information on ingredients**3.1 Substances**

- hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EC Number: 919-857-5
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336
REACH Registration Number: 01-2119463258-33-XXXX

3.2 Mixtures

SECTION 4: First aid measures**4.1 Description of first aid measures**

- Contact with eyes
If substance has got into eyes, immediately wash out with plenty of water for several minutes
Irrigate eyes thoroughly whilst lifting eyelids
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
- Contact with skin
Take off contaminated clothing and wash it before reuse.
Wash affected area with plenty of soap and water
If skin irritation occurs: Get medical advice/attention.
- Ingestion
Rinse mouth with water (do not swallow)
Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention
If vomiting occurs turn patient on side
Get immediate medical advice/attention.
- Inhalation
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Keep warm and at rest, in a half upright position. Loosen clothing
Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation
Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
May cause eye irritation
- Contact with skin
May cause skin irritation
Repeated exposure may cause skin dryness or cracking

SECTION 4: First aid measures (...)

- Ingestion
 - May cause nausea/vomiting
 - May cause diarrhoea
 - The ingestion of significant quantities may cause pulmonary oedema
- Inhalation
 - Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
 - May cause drowsiness
 - May cause breathing difficulty

4.3 Indication of any immediate medical attention and special treatment needed

- Advice to Physician: potential for chemical pneumonitis.
- Consider: gastric lavage with protected airway, administration of activated charcoal.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide
- Unsuitable extinguishing media: high volume water jet

5.2 Special hazards arising from the substance or mixture

- Vapours may ignite
- In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
- In a fire or if heated, a pressure increase will occur and the container may burst
- Decomposition products may include carbon oxides
- Decomposition products may include hydrocarbons

5.3 Advice for firefighters

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Keep container(s) exposed to fire, cool by spraying with water
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Rescuers should take suitable precautions to avoid becoming casualties themselves
- Shut off all ignition sources
- In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air
- Personal precautions for non-emergency personnel: Avoid breathing vapours, mist or gas; Avoid contact with skin and eyes; Wear protective clothing as per section 8; Wash thoroughly after handling.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA).

6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Stop leak if safe to do so.
- In case of leakage, eliminate all ignition sources.
- Use non-sparking tools.

SECTION 6: Accidental release measures (....)

- Take action to prevent static discharges.
- Contain the spillage using bunding
- Absorb spillage in inert material and shovel up
- Place in appropriate container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal
- Dispose of contents/container to an authorised waste collection point
- To be disposed of as hazardous waste

6.4 Reference to other sections

- See section(s): 7,8 &13
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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not eat, drink or smoke when using this product.
- Take precautionary measures against static discharges
- Use explosion-proof equipment.
- Use non-sparking tools.
- Use only in well ventilated areas
- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
- In case of inadequate ventilation wear respiratory protection.
- Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Keep only in the original container
- Keep container tightly closed, in a cool, well ventilated place
- Opened containers should be carefully resealed and stored in an upright position
- Ground and bond container and receiving equipment.
- Use explosion-proof electrical equipment.
- Keep away from heat and sources of ignition
- Incompatible with strong acids
- Incompatible with oxidizing substances

7.3 Specific end use(s)

Allowing the clean detachment of imprinting mats from the surface of freshly placed concrete

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

- hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
WEL (long term) 1 200 mg/m³ (CEFIC - HSPA recommended WEL)
DNEL (inhalational) 1 500 mg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 300 mg/kg (bw/day) Industry, Long Term, Systemic Effects
DNEL (inhalational) 900 mg/m³ Consumer, Long Term, Systemic Effects
DNEL (dermal) 300 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
DNEL (oral) 300 mg/kg (bw/day) Consumer, Long Term, Systemic Effects

Additional information - DNEL information obtained from ECHA Toxicological Summary

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential
- Engineering controls should be provided to prevent the need for ventilation
- Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827

SECTION 8: Exposure controls/personal protection (. ...)

- Where a full face mask respirator is required, use EN 136, with gas/vapour filter EN 14387 type ABEK
- Wear goggles giving complete eye protection
- Wear suitable protective clothing
- Wear anti-static boots
- Contaminated clothing should be laundered before reuse
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Use good personal hygiene practices
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Ensure eyewash stations and safety showers are nearby



SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance: Liquid; colourless
- Odour: Petroleum odour
- Odour threshold: No information available
- pH: Not applicable
- Melting point/freezing point: - 50 °C @ 101.325 kPa
- Initial boiling point and boiling range: 130 - 210 °C
- Flashpoint: 39 °C @ 101.325 kPa
- Evaporation Rate: No information available
- Flammability (solid,gas): May form explosive vapour/air mixtures
- Upper/lower flammability or explosive limits: Lower explosive limit: 0.6 % (in air); Upper explosive limit: 6 % (in air)
- Vapour Pressure: 3 hPa @ 20 °C
- Vapour Density: 4.8 g/cm³
- Relative Density: 0.741 to 0.851 g/cm³
- Solubility(ies): Insoluble in water; miscible with most organic solvents
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: 200 °C @ 101.325 kPa
- Decomposition temperature: No information available
- Viscosity: (kinematic) 0.8 mm²/s @ 40°C
- Explosive Properties: May form explosive vapour/air mixtures
- Oxidising properties: Not applicable

9.2 Other information

- No information available

SECTION 10: Stability and reactivity**10.1 Reactivity**

- Reacts violently with strong oxidizing substances

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- May form explosive vapour/air mixtures

10.4 Conditions to avoid

- Keep away from heat and sources of ignition
- Take action to prevent static discharges.

10.5 Incompatible materials

- Incompatible with strong acids
- Incompatible with oxidizing substances

10.6 Hazardous decomposition products

- Decomposition products may include carbon oxides
- Decomposition products may include hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute Toxicity
Based on available data, the classification criteria are not met
LD50 (oral, rat) 5 000 - 15 000 mg/kg bw
LC50 (inhalation, rat) 4.951 - 9.3 mg/l/4h
LD50 (dermal, rabbit) 3 160 - 5 000 mg/kg bw
- Skin corrosion/irritation
Based on available data, the classification criteria are not met
- Serious eye damage/irritation
Based on available data, the classification criteria are not met
- Respiratory or skin sensitisation
Based on available data, the classification criteria are not met
- Germ cell mutagenicity
No evidence of mutagenic effects
- Carcinogenicity
No evidence of carcinogenic effects
- Reproductive toxicity
No evidence of reproductive effects
- Specific target organ toxicity (STOT) - single exposure
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics is classified as
STOT SE 3 (may cause narcotic effects)
Target organs: Has central nervous system effects
- Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met
- Aspiration hazard
May be fatal if swallowed and enters airways.
- Contact with eyes
May cause redness and irritation
- Contact with skin
May cause skin irritation
Repeated exposure may cause skin dryness or cracking.
- Ingestion
May cause nausea/vomiting
May cause diarrhoea
The ingestion of significant quantities may cause pulmonary oedema

SECTION 11: Toxicological information (...)

- Inhalation
Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
May cause drowsiness
May cause breathing difficulty
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SECTION 12: Ecological information**12.1 Toxicity**

- Based on available data, the classification criteria are not met
- hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LL50 (fish) 1 g/l (4 days)
EL50 (aquatic invertebrates) 1 g/l (48 hr)
EL50 (aquatic algae) 1 g/l (72 hr)

12.2 Persistence and degradability

- Readily biodegradable

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Other adverse effects

- No information available
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point
- This material and its container must be disposed of as hazardous waste
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not pierce or burn container, even after use
- Empty containers may contain flammable vapours

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
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SECTION 14: Transport information**14.1 UN number**

- UN No.: 1268

14.2 UN proper shipping name

- Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.

14.3 Transport hazard class(es)

SECTION 14: Transport information (....)

- Hazard Class: 3

14.4 Packing group

- Packing Group: III

14.5 Environmental hazards

- Not applicable

14.6 Special precautions for user

- No special precautions are required for this product

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not applicable

14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
- ADR UN No.: 1268
- ADR Hazard Class: 3
- ADR Packing Group: III
- Tunnel Code: D/E

14.9 Sea (IMDG)

- Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
- IMDG UN No.: 1268
- IMDG Hazard Class: 3
- IMDG Pack Group.: III

14.10 Air (ICAO/IATA)

- Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
 - ICAO UN No.: 1268
 - ICAO Hazard Class: 3
 - ICAO Packing Group: III
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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- This product is covered by EU Directive 2012/18/EU (the Seveso III Directive)

15.2 Chemical safety assessment

- A REACH chemical safety assessment has been carried out
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SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company will not be held liable for any damage resulting from handling or from contact with this product.

Sources of data: Information from published literature and internal company data

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H226: Flammable liquid and vapour
- H304: May be fatal if swallowed and enters airways
- H336: May cause drowsiness or dizziness

Acronyms

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC50: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- STOT RE: Specific Target Organ Toxicity Repeated Exposure
- STOT SE: Specific Target Organ Toxicity Single Exposure
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---