# SAFETY DATA SHEET

**BELZONA® 9411 (RELEASE AGENT)**

## 1. Identification

<table>
<thead>
<tr>
<th><strong>Product Identifier</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>BELZONA® 9411 (RELEASE AGENT)</td>
</tr>
<tr>
<td><strong>Product number</strong></td>
<td>SN2326</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

- **Application**: Mould and component release agent. For industrial use only.
- **Uses advised against**: The product should not be used for purposes other than those recommended in the appropriate instructions for use (IFU) leaflet.

**Details of the supplier of the safety data sheet**

<table>
<thead>
<tr>
<th><strong>Supplier</strong></th>
<th>Belzona Inc.</th>
<th>Belzona Canada Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td>2000 N.W. 88 Court, Miami, FL 33172</td>
<td>51-588 Edward Avenue, Richmond Hill, Ontario, L4C 9Y6</td>
</tr>
<tr>
<td><strong>Country</strong></td>
<td>UNITED STATES</td>
<td>CANADA</td>
</tr>
<tr>
<td><strong>Phone</strong></td>
<td>1-305-594-4894</td>
<td>1-905-737-2225</td>
</tr>
<tr>
<td><strong>Email</strong></td>
<td><a href="mailto:sds@belzona.com">sds@belzona.com</a></td>
<td><a href="mailto:sds@belzona.com">sds@belzona.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Manufacturer</strong></th>
<th>Belzona Polymers Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td>Claro Road, Harrogate, HG1 4DS</td>
</tr>
<tr>
<td><strong>Country</strong></td>
<td>United Kingdom</td>
</tr>
<tr>
<td><strong>Phone</strong></td>
<td>+44 1423 567641</td>
</tr>
<tr>
<td><strong>Email</strong></td>
<td><a href="mailto:sds@belzona.com">sds@belzona.com</a></td>
</tr>
</tbody>
</table>

**Emergency telephone number**

<table>
<thead>
<tr>
<th><strong>Emergency telephone</strong></th>
<th>ChemTel: 1-800-255-3824 (North America)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ChemTel</strong></td>
<td>+1 813-248-0585 (International)</td>
</tr>
</tbody>
</table>

## 2. Hazard(s) Identification

**Classification of the substance or mixture**

- **OSHA Regulatory Status**: This Product is Hazardous under the OSHA Hazard Communication Standard.
- **Physical hazards**: Not Classified
- **Health hazards**: STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304
- **Environmental hazards**: Not Classified

**Reference**

The full text for all hazard statements is displayed in Section 16.

**Label elements**

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BELZONA® 9411 (RELEASE AGENT)

Signal word

Hazard statements
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Precautionary statements
P260 Do not breathe vapors.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a poison center or doctor.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P308+313 If exposed or concerned: Get medical attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with all Federal, State/Provincial and local regulations.

Contains
WHITE SPIRIT

Other hazards
Can become flammable in use.

Hazard not otherwise classified (HNOC)
Can become flammable in use.

3. Composition/Information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHITE SPIRIT</td>
<td>30-60%</td>
</tr>
<tr>
<td>trans-DICHLOROETHYLENE</td>
<td>10-30%</td>
</tr>
</tbody>
</table>

Composition comments
The benzene content of the hydrocarbon constituents contained within this product is significantly below the 0.1% w/w threshold and therefore, the product is not classified as a carcinogen.

4. First-aid measures

Description of first-aid measures

General Information
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air. Keep the patient warm and at rest. Give nothing by mouth.

Ingestion
If accidentally swallowed obtain immediate medical attention. Keep at rest. Rinse mouth with plenty of water. Do NOT induce vomiting.
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Skin Contact
Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners. If irritation or inflammation persists, seek medical attention.

Eye contact
Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical advice.

Most important symptoms and effects, both acute and delayed

General information
Exposure to organic solvent vapors may result in the following symptoms: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Inhalation
Exposure to vapors may result in irritation of the mucous membrane and the respiratory system. Vapours may cause drowsiness and dizziness.

Ingestion
Aspiration of solvent vapors into the lungs may cause severe pulmonary problems.

Skin contact
Prolonged or repeated contact with the skin or mucous membrane may result in irritant symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed.

Eye contact
May cause eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
None.

5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
Use: sand, alcohol resistant foam, carbon dioxide, chemical powder, or water fog for larger fires.
Do NOT use water jet.

Special hazards arising from the substance or mixture

Flammability Class
No Uniform Fire Code noted.

Hazardous combustion products
In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride may be produced.

Advice for firefighters
Protective actions during firefighting
Fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health. Appropriate positive-pressure self-contained breathing apparatus (SCBA) and full fire fighting turn-out gear (Bunker gear) should be worn. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains, sewers, ditches or waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Exclude non-essential personnel. Keep up-wind of spill to avoid breathing vapors. Avoid contact with skin and eyes.

Environmental precautions
Prevent spills from entering drains or sewers. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Methods and material for containment and cleaning up
BELZONA® 9411 (RELEASE AGENT)

Methods for cleaning up

Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place into a suitable labeled container. Clean surfaces down with a water and detergent mixture. Do not allow spilled product or the associated washings to enter surface water drains or watercourses.

Reference to other sections
For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions

GENERAL Avoid breathing vapor. Keep the container tightly closed until ready for use. Prevent air-borne concentrations higher than the occupational exposure limits (see Section 8). Avoid contact with eyes, skin and clothing. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Always keep in containers made of the same material as the supply container. FIRE/EXPLOSION This product may become flammable in use. Exclude sources of heat, sparks and open flame. Vapors are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. 

Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards. Ensure emergency equipment (for fires, spills, leaks, etc.) is readily available. SPECIAL This product should not be applied where substrate temperatures exceed 150°C (302°F).

Advice on general occupational hygiene

Wash at the end of each work shift and before eating, smoking and using the toilet. Ensure eye wash facilities (fountain, bottle, vials, etc.) are readily available. Do not put contaminated articles or equipment e.g. spatulas, applicators, brushes, cloths etc., into pockets. Where necessary, contaminated work clothing and shoes should be removed to prevent cross contamination of surfaces and the risk of inadvertent skin contact and ingestion.

Conditions for safe storage, including any incompatibilities

Storage precautions

Observe the label precautions. Store in a dry, well ventilated piece away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Have appropriate fire extinguishers available in and near the storage area. Store separately from oxidizing agents and strongly alkaline and strongly acidic materials. ENVIRONMENTAL STORAGE PRECAUTIONS Spillage, incorrect storage of chemicals or waste materials or unsuitable disposal activities can result in pollutants seeping through the soil, causing serious harm to groundwater- which is a vital source of drinking water. All wastes, especially liquid wastes, should be securely stored on site in designated areas that are isolated from waterways and groundwater and diiked to contain any spillages.

Specific end use(s)

Application by brush. Single component material. This product does not require mixing with another component before use. Please refer to the relevant Belzona® Instructions For Use for further information.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

WHITE SPIRIT

Long-term exposure limit (8-hour TWA): SUP 350 mg/m³

trans-DICHLOROETHYLENE

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 793 mg/m³
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ACGIH = American Conference of Governmental Industrial Hygienists.

Exposure controls
Appropriate engineering controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of vapors below the relevant occupational exposure limits, suitable respirators should be worn (see 'Respiratory protection' below).

Eye/face protection
It is recommended that eye protection, for example safety glasses with side shields or goggles are worn at all times during the handling and use of this material.

Hand protection
The breakthrough time of the gloves selected should exceed the expected use period. Where this is not possible, gloves should be changed in good time, and in any case before the breakthrough time is exceeded. Where doubt exists, advice should be sought from manufacturers or vendors of protective gloves in order to determine appropriate types for the particular circumstances. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred. SPECIFIC RECOMMENDATIONS Wear protective gloves made of the following material: Neoprene. Nitrile rubber. STANDARD APPLICATIONS / EMERGENCY SITUATIONS Medium-heavy weight gauntlet type gloves that provide wrist protection are suitable. APPLICATION OF SMALL QUANTITIES Light weight disposable gloves are normally suitable.

Other skin and body protection
STANDARD APPLICATIONS Synthetic polyethylene coveralls such as the Tyvek PRO-TECH® or equivalent coveralls manufactured to provide protection against liquid chemicals should be worn. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. APPLICATION OF SMALL QUANTITIES Cotton overalls are normally suitable.

Respiratory protection
It is essential that the concentration of the contaminant(s) in the application environment does not exceed the applicable occupational exposure limit(s) multiplied by the Assigned Protection Factor (APF) quoted for the respiratory protective equipment selected. STANDARD APPLICATIONS Where necessary, it is recommended that an OSHA/NIOSH approved air-purifying full facepiece or half-face respirator equipped with appropriate vapor/particulate cartridge(s) should be worn. Where the application environment is likely to be contaminated by significant concentrations of dust then the appropriate particulate prefilter (N-, R- or P-series) should be worn in combination with the above. It is essential that the facepiece is correctly fitted and the filter is changed in accordance with the manufacturer’s instructions. APPLICATION OF SMALL QUANTITIES Not normally required when this product is handled and applied in well ventilated areas.

Immediate danger to life and health
Where entry into unknown or immediately Dangerous To Life or Health (IDLH) atmospheres is required, an OSHA/NIOSH approved pressure-demand self-contained breathing apparatus (SCBA) with a full facepiece or a pressure-demand supplied-air respirator (SAR) with a full facepiece in combination with an auxiliary pressure-demand SCBA respirator should be worn.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>White/off-white</td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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Melting point Not available.
Initial boiling point and range >40°C/104°F @ 760 mm Hg
Flash point Technically not feasible. Does not flash.
Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits Not applicable.
Vapor pressure 51 kPa @ 25°C/77°F
Vapor density > 1
Relative density 0.95 - 1.05 @ 20°C/68°F
Solubility(ies) Slightly soluble in water.
Partition coefficient Not available.
Auto-Ignition temperature >280°C/>53°F
Decomposition Temperature Not available.
Viscosity Not available.
Explosive properties Not applicable.
Oxidizing properties Not applicable.

Other information This section contains typical values for Health, Safety and Environmental guidance only and is not intended to represent a technical specification for the product.

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product.
Stability Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions No hazardous reactions expected when stored and handled as recommended.
Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid Keep away from oxidizing agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
Hazardous decomposition products Does not decompose when used and stored as recommended.

11. Toxicological information

Information on toxicological effects
Acute toxicity - oral Notes (oral LD₅₀) Based on available data the classification criteria are not met.
Acute toxicity - dermal Notes (dermal LD₅₀) Based on available data the classification criteria are not met.
Acute toxicity - Inhalation
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Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation
Animal data 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 sensitization
Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization
Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity
Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity Not listed.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

Reproductive toxicity
Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination, and vertigo.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Target organs Central nervous system

Aspiration hazard
Aspiration hazard May be fatal if swallowed and enters airways. Kinematic viscosity ≤ 20.5 mm²/s.

Route of entry Ingestion Inhalation

12. Ecological Information

Ecotoxicity There is no data on the product itself. The following information is provided on the basis of the individual component data available.

Toxicity Based on the individual component data, is expected to have experimental LC₅₀/EC₅₀/C₅₀ values between 1 and 10 mg/l in most sensitive species.

Persistence and degradability
Persistence and degradability Based on the individual component data, the product is not expected to be rapidly biodegradable according to OECD/EC guidelines.
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Bioaccumulative potential

<table>
<thead>
<tr>
<th>Bio-Accumulative Potential</th>
<th>Based on the individual component data, the product is expected to bioaccumulate.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>There is no data available on the product itself.</td>
</tr>
<tr>
<td>Mobility</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Other adverse effects

| Other adverse effects | None known.                                                                     |

13. Disposal considerations

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
<th>Waste disposal methods</th>
<th>Do NOT dump into any sewers, on the ground, or into any body of water. Controlled wastes include non-hazardous industrial and hazardous chemical wastes. Disposal must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations are the responsibility solely of the waste generator. COMPONENT DISPOSAL TRANSIT PACKAGING: shrink or stretch wrap, boxes and fittings that have not been contaminated with product should be re-used or recycled. UNUSED PRODUCT: uncleaned containers and contaminated packaging may qualify as hazardous chemical waste as defined in 40 CFR 261.20-24.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal methods</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Waste class            | 14 01 02*. Waste class is not relevant. |

14. Transport information

| General | This product is not regulated for transport by US DOT, and qualifies for exemption (TDG 1.45.1) if shipped on land in Canada. Labeling and packaging requirements may vary with pack and load size. Please refer to the current transport regulations. Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage. |

<table>
<thead>
<tr>
<th>UN Number</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No. (TDG)</td>
<td>3082</td>
</tr>
<tr>
<td>UN No. (IMDG)</td>
<td>3082</td>
</tr>
<tr>
<td>UN No. (ICAO)</td>
<td>3082</td>
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<tr>
<td>UN No. (DOT)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN proper shipping name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name (TDG)</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (containing Turpentine substitute mixture)</td>
</tr>
<tr>
<td>Proper shipping name (IMDG)</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (containing Turpentine substitute mixture)</td>
</tr>
<tr>
<td>Proper shipping name (ICAO)</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (containing Turpentine substitute mixture)</td>
</tr>
<tr>
<td>Proper shipping name (DOT)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT hazard class</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>TDG class</td>
<td>9</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>9</td>
</tr>
<tr>
<td>ICAO class/division</td>
<td>9</td>
</tr>
</tbody>
</table>
BELZONA® 9411 (RELEASE AGENT)

Packing group
TDG Packing Group III
IMDG packing group III
ICAO packing group III
DOT packing group Not applicable.

Environmental hazards
Environmentally Hazardous Substance
Yes. Not a marine pollutant under US DOT.

Special precautions for user
Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not carried in bulk.

15. Regulatory information

US Federal Regulations
SARA 313 Emission Reporting
trans-DICHLOROETHYLENE
Yes.

SARA (311/312) Hazard Categories
Acute

US State Regulations
State Regulations Comments U.S California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Inventories
Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

16. Other information
BELZONA® 9411 (RELEASE AGENT)

General information
The information contained within this safety data sheet does not constitute the users own assessment of workplace risks as may be required by other Local Regulations. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant Local Regulations are complied with. To the best of our knowledge, the information contained herein is accurate. However, some of the information presented and conclusions drawn are derived from sources other than direct test data on the product itself and while Belzona Inc. believes such sources to be reliable, the information is provided without any warranty regarding its correctness. Since Belzona Inc. has no control over the conditions under which the product will be used, liability will not be assumed to exceed replacement or refund of the purchase price of this product. Except as stated herein, there are no express or implied warranties including implied warranties of merchantability or fitness for a particular purpose. Belzona Inc. assumes no liability for injury or incidental or consequential damage arising out of the storage, handling, use or, disposal of this product.

Key literature references and sources for data

Training advice
For further information please contact your supplier, Belzona consultant or Belzona direct.

Revision comments
REVISION. This safety data sheet has been revised in the following Section(s): 1, 2, 7, 8, 9, 12, 13, 14, 15. Please observe the REVISION DATE. Should you be reading a material safety data sheet that is more than 24 months old or have concerns over its validity, please contact your local Belzona Distributor or Belzona direct (sds@belzona.com) and the most current information will be sent to you.

Revision date 10/10/2017
Revision 6.3
SDS No. 10574

Hazard statements in full
H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

NFPA - health hazard Temporary incapacitation, injury. (2)
NFPA - flammability hazard Burns only if pre-heated. (1)
NFPA - instability hazard Normally stable. (0)