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

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>LIQUID RELEASE AGENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product number</td>
<td>19600</td>
</tr>
</tbody>
</table>

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

| Identified uses | Releasing agent. |

### 1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Supplier</th>
<th>ITW Performance Polymers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bay 150</td>
</tr>
<tr>
<td></td>
<td>Shannon Industrial Estate</td>
</tr>
<tr>
<td></td>
<td>Co. Clare</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
</tr>
<tr>
<td></td>
<td>V14 DF82</td>
</tr>
<tr>
<td></td>
<td>353(61)771500</td>
</tr>
<tr>
<td></td>
<td>353(61)471285</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:mail@itwpp.com">mail@itwpp.com</a></td>
</tr>
</tbody>
</table>

### 1.4. Emergency telephone number

| Emergency telephone number | +44(0)1235 239 670 (24h) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical hazards</td>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td>Health hazards</td>
<td>Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

### Human health

Possible risk of impaired fertility.

### 2.2. Label elements

#### Pictogram

- Flammable liquid
- Caution
- Skin irritation

#### Signal word

Danger

#### Hazard statements

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
LIQUID RELEASE AGENT

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapour/spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P403+P235 Store in a well-ventilated place. Keep cool.

Contains
NAPHTHA (PETROLEUM), LIGHT ALKYLATE; LOW BOILING POINT MODIFIED NAP

Supplementary precautionary statements
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>NAPHTHA (PETROLEUM), LIGHT ALKYLATE; LOW BOILING POINT MODIFIED NAP</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64741-66-8</td>
<td>EC number: 265-068-8</td>
</tr>
</tbody>
</table>

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
Muta. 1B - H340
Carc. 1B - H350
STOT SE 3 - H336
Asp. Tox. 1 - H304

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

SECTION 4: First aid measures

4.1. Description of first aid measures
General information
Avoid contact with skin and eyes. Do not breathe vapour. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
LIQUID RELEASE AGENT

Inhalation  Move affected person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion  DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Skin contact  Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contact  Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

4.2. Most important symptoms and effects, both acute and delayed

General information  The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor  No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media  Extinguish with the following media: Foam. Dry chemicals. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Specific hazards  Highly flammable Avoid breathing fire gases or vapours. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Closed containers can burst violently when heated, due to excess pressure build-up. Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting  Keep up-wind to avoid fumes. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters  Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions  Warn everybody of potential hazards and evacuate if necessary. Avoid contact with skin and eyes. Eliminate all sources of ignition. Do not breathe vapour/spray. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions  Avoid or minimise the creation of any environmental contamination. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up  Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections
LIQUID RELEASE AGENT

Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Avoid contact with skin and eyes. Keep container tightly closed. Earth container and transfer equipment to eliminate sparks from static electricity. Keep away from heat, sparks and open flame. Use non sparking handtools and explosion-proof electric equipment. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Contaminated clothing and shoes must be discarded. Use suitable respiratory protection if ventilation is inadequate.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10).

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters
Ingredient comments
No exposure limits known for ingredient(s).

8.2. Exposure controls
Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Keep container tightly closed.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
To protect hands from chemicals, gloves should comply with European Standard EN374. Wear protective gloves made of the following material: Rubber or plastic. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection
Wear chemical protective suit.

Hygiene measures
Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.
LIQUID RELEASE AGENT

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic 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>Colour</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Oily liquid.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): 7 @ 25 ºC</td>
</tr>
<tr>
<td>Melting point</td>
<td>n/d°C</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>101°C @</td>
</tr>
<tr>
<td>Flash point</td>
<td>&lt;7°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>5.6</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>63 mm Hg @ °C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>4</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.72 @ 20 °C°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water.</td>
</tr>
</tbody>
</table>

9.2. Other information

Other information: Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Strong oxidising agents.

10.2. Chemical stability

Stability: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid: Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products: Oxides of the following substances: Carbon. Silicone Formaldehyde.

SECTION 11: Toxicological information
LIQUID RELEASE AGENT

11.1. Information on toxicological effects

Inhalation
Vapour may affect central nervous system. Symptoms following overexposure may include the following: Headache. Nausea, vomiting. Intoxication. May cause discomfort. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression. Arrhythmia (deviation from normal heart beat). In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion
Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Central nervous system depression.

Skin contact
Irritating to skin. Prolonged or repeated exposure may cause severe irritation. Wear appropriate clothing to prevent skin contamination.

Eye contact
Irritating to eyes.

Acute and chronic health hazards
Possible risk of impaired fertility. May cause cancer.

Route of entry
Inhalation Skin and/or eye contact

SECTION 12: Ecological Information

Ecotoxicity
Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

12.1. Toxicity
Toxicity
Not considered toxic to fish.

12.2. Persistence and degradability
Persistence and degradability
There are no data on the degradability of this product.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil
Mobility
Do not discharge into drains or watercourses or onto the ground.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information
When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty containers must not be punctured or incinerated because of the risk of an explosion.
LIQUID RELEASE AGENT

Waste class  08 04 99

SECTION 14: Transport information

General  No other information known.

14.1. UN number
UN No. (ADR/RID)  1208
UN No. (IMDG)  1208
UN No. (ICAO)  1208

14.2. UN proper shipping name
Proper shipping name (ADR/RID)  HEXANES
Proper shipping name (IMDG)  HEXANES
Proper shipping name (ICAO)  HEXANES
Proper shipping name (ADN)  HEXANES

14.3. Transport hazard class(es)
ADR/RID class  3
ADR/RID label  3
IMDG class  3
ICAO class/division  3

14.4. Packing group
ADR/RID packing group  II
IMDG packing group  II
ICAO packing group  II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
EmS  F-E, S-D
Emergency Action Code  3YE
Hazard Identification Number (ADR/RID)  33

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  No information required.
LIQUID RELEASE AGENT

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 03/04/2018
Revision 15
Supersedes date 26/04/2017

Hazard statements in full
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.