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

1.1. Product identifier
Product name: ITW RELEASE AGENT
Product number: Y0064

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
Supplier: ITW Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
mail@itwpp.com

1.4. Emergency telephone number
Emergency telephone: +44(0)1235 239 670 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards: Aerosol 1 - H222, H229
Health hazards: Eye Irrit. 2 - H319
Environmental hazards: Not Classified

2.2. Label elements

Pictogram

Signal word: Danger

Hazard statements: H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated
H319 Causes serious eye irritation.
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Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplementary precautionary statements
P264 Wash contaminated skin thoroughly after handling.
P337+P313 If eye irritation persists: Get medical advice/ attention.

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>HYDROCARBON AEROSOL PROPELLANT (&lt;0.1% 1, 3-BUTADIENE)</th>
<th>70-90%</th>
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</thead>
<tbody>
<tr>
<td>CAS number: 68476-85-7</td>
<td>EC number: 270-704-2</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Gas 1 - H220</td>
<td></td>
</tr>
<tr>
<td>Press. Gas, Compressed - H280</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACETONE</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-64-1</td>
<td>EC number: 200-662-2</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2 - H225</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H336</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROPAN-2-OL</th>
<th>1-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td>EC number: 200-661-7</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2 - H225</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H336</td>
<td></td>
</tr>
</tbody>
</table>

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 | Show this safety data sheet to the doctor in attendance |
| Inhalation | If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. |
| Ingestion | Do not induce vomiting. Give plenty of water to drink. Get medical attention. |
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Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. 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.

Inhalation
May cause respiratory system irritation. Coughing, chest tightness, feeling of chest pressure. May cause drowsiness or dizziness.

Skin contact
May cause irritation.

Eye contact
Severe irritation, burning, tearing and blurred vision.

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 alcohol-resistant foam, carbon dioxide or dry powder. Containers close to fire should be removed or cooled with water.

Unsuitable extinguishing media
Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards
Extremely flammable aerosol. May explode when heated or when exposed to flames or sparks. Pressurised container: may burst if heated. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous combustion products
Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

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
No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of spray mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions
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
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Methods for cleaning up
Absorb spillage with sand or other inert absorbent. 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. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage.

6.4. Reference to other sections
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. Handle and open container with care. Avoid inhalation of vapours and spray/mists. Keep away from sources of ignition - No smoking. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Do not pierce or burn, even after use. Ground/bond container and receiving equipment.

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 sources of ignition - No smoking. 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
Occupational exposure limits
HYDROCARBON AEROSOL PROPELLANT (<0.1% 1, 3-BUTADIENE)
Long-term exposure limit (8-hour TWA): WEL 600 ppm 1430 mg/m³
Short-term exposure limit (15-minute): WEL 750 ppm 1780 mg/m³

ACETONE
Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³
Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

PROPAN-2-OL
Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³
WEL = Workplace Exposure Limit

Ingredient comments
WEL = Workplace Exposure Limits

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.
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Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with European Standard EN374. 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. 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.

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>Aerosol.</td>
</tr>
<tr>
<td>Colour</td>
<td>White.</td>
</tr>
<tr>
<td>Odour</td>
<td>Sweetish. Ether.</td>
</tr>
<tr>
<td>Melting point</td>
<td>&lt;-130°C</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>-25°C @ -100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>-100°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Fast</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Lower flammable/explosive limit: 1.8 Upper flammable/explosive limit: 9.4</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&gt;210 @ °C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>1.91</td>
</tr>
<tr>
<td>Relative density</td>
<td>&lt;1 @ 20 °C°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt;200°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Non-viscous @ °C</td>
</tr>
</tbody>
</table>

9.2. Other information
Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
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

Not available.

10.4. Conditions to avoid

Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid heat. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid


10.6. Hazardous decomposition products

Hazardous decomposition products


SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation

Harmful by inhalation. Vapours may cause drowsiness and dizziness.

Eye contact

Severe irritation, burning, tearing and blurred vision.

Acute and chronic health hazards

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Headache.

SECTION 12: Ecological Information

Ecotoxicity

Avoid release to the environment.

12.1. Toxicity

Toxicity

Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability

The product is moderately biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility

The product is soluble in water. The product contains volatile substances which may spread in the atmosphere.

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.

Waste class 16 05 05

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1950
UN No. (IMDG) 1950
UN No. (ICAO) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS
Proper shipping name (IMDG) AEROSOLS
Proper shipping name (ICAO) AEROSOLS
Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1
ADR/RID label 2.1
IMDG class 2.1
ICAO class/division 2.1

Transport labels

14.4. Packing group
Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-D, S-U
Tunnel restriction code (D)

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

SECTION 15: Regulatory information

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

EU legislation

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

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Revision comments</th>
<th>Revised formulation. NOTE: Lines within the margin indicate significant changes from the previous revision.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>26/04/2018</td>
</tr>
<tr>
<td>Revision</td>
<td>11</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>08/05/2017</td>
</tr>
<tr>
<td>Hazard statements in full</td>
<td>H220 Extremely flammable gas.</td>
</tr>
<tr>
<td></td>
<td>H222 Extremely flammable aerosol.</td>
</tr>
<tr>
<td></td>
<td>H225 Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td></td>
<td>H229 Pressurised container: may burst if heated</td>
</tr>
<tr>
<td></td>
<td>H280 Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td></td>
<td>H319 Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>H336 May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

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