

Trade name: 360070000 S3 Release Agent**Product no.:** 360070000**Current version :** 1.1.0, issued: 15.01.2021**Replaced version:** 1.0.2, issued: 12.06.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

360070000 S3 Release Agent**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Auxiliaries for the manufacture of components by vacuum casting

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Scott AM Ltd
Sutherland Works, Beaufort Road
Longton, Stoke on Trent
Staffordshire, ST3 1RH
United Kingdom

Telephone no. +44 (0) 1782 367 625

e-mail info@scott-am.com

1.4 Emergency telephone number

In case of transport incidents and other emergencies:

Europe: +44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

East/South East Asia: +65 3158 1074

India: 000 800 100 7479 (toll –free number, access from India only)

Indonesia: 007 803 011 0293 (toll-free, access from Indonesia only)

Japan: +81 3 4578 9341

Malaysia: +60 3 6207 4347

Pakistan: +65 3158 1329

Sri Lanka: +65 3158 1195

Taiwan: +886 2 8793 3212

Thailand: 001 800 120 666 751 (toll-free, access from Thailand only)

Middle East/Africa: +44 1235 239671

Australia: +61 2 8014 4558

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aerosol 1; H222

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

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GHS02

Signal word

Danger

Hazard statement(s)

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.

Precautionary statement(s)

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.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3 Other hazards

PBT assessment
 No data available.

vPvB assessment
 No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

| No | Substance name | Additional information | |
|----|--------------------------------------------|-----------------------------------------------|----------------------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration % |
| 1 | propane | | pls. refer to footnote (1) |
| | 74-98-6 200-827-9 601-003-00-5 - | Flam. Gas 1A; H220 Press. Gas compr.; H280 | >= 70.00 - < 90.00 wt% |
| 2 | butane | | |
| | 106-97-8 203-448-7 601-004-00-0 - | Flam. Gas 1A; H220 Press. Gas; H280 | >= 10.00 - < 25.00 wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 2 | C, U | - | - | - |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures**General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

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Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). In case of irritation consult an ophthalmologist.

After ingestion

Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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

Extinguishing powder; Alcohol-resistant foam; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixtureIn the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Silicon dioxide**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Heat causes increase in pressure and risk of bursting. Cool endangered containers with water spray jet.

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

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Room ventilation via exhaust system.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Avoid contact with eyes and skin. Do not inhale vapours. Do not inhale aerosols.

Advice on protection against fire and explosion

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Keep away from sources of heat and ignition. Take precautionary measures against static charges. Heating up leads to increase of pressure - danger of bursting. Ignitable mixtures can form in the empty container.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

None known

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

| No | Substance name | CAS no. | EC no. |
|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|---------------------------|
| 1 | butane | 106-97-8 | 203-448-7 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Butane | | | |
| | WEL short-term (15 min reference period) | 1810 | mg/m ³ 750 ppm |
| | WEL long-term (8-hr TWA reference period) | 1450 | mg/m ³ 600 ppm |
| | Comments | Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene) | |

8.2 Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

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

liquid

Form/Colour

EU safety data sheet

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| | |
|----------------------------------------------------------|----------------------------------|
| Aerosol | |
| colourless | |
| Odour | |
| petrol-like | |
| pH value | |
| No data available | |
| Boiling point / boiling range | |
| No data available | |
| Melting point/freezing point | |
| No data available | |
| Decomposition temperature | |
| No data available | |
| Flash point | |
| Value | -18 °C |
| Ignition temperature | |
| Value | 365 °C |
| Flammability | |
| No data available | |
| Lower explosion limit | |
| Value | 1.5 % vol |
| Upper explosion limit | |
| Value | 10.9 % vol |
| Vapour pressure | |
| Value | 8300 hPa |
| Reference temperature | 20 °C |
| Relative vapour density | |
| No data available | |
| Relative density | |
| No data available | |
| Density | |
| No data available | |
| Solubility in water | |
| Comments | Not miscible or difficult to mix |
| Solubility | |
| No data available | |
| Partition coefficient n-octanol/water (log value) | |
| No data available | |
| Viscosity | |
| No data available | |
| Solvent content | |
| Value | 90 % |
| Particle characteristics | |
| No data available | |

9.2 Other information

| |
|--------------------------|
| Other information |
| No data available. |

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

None, when used as directed.

10.4 Conditions to avoid

Protect from heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| |
|----------------------------|
| Acute oral toxicity |
| No data available |

| |
|------------------------------|
| Acute dermal toxicity |
| No data available |

| |
|------------------------------------|
| Acute inhalational toxicity |
| No data available |

| |
|----------------------------------|
| Skin corrosion/irritation |
| No data available |

| |
|--------------------------------------|
| Serious eye damage/irritation |
| No data available |

| |
|------------------------------------------|
| Respiratory or skin sensitisation |
| No data available |

| |
|-------------------------------|
| Germ cell mutagenicity |
| No data available |

| |
|------------------------------|
| Reproduction toxicity |
| No data available |

| |
|------------------------|
| Carcinogenicity |
| No data available |

| |
|-------------------------------|
| STOT - single exposure |
| No data available |

| |
|---------------------------------|
| STOT - repeated exposure |
| No data available |

| |
|--------------------------|
| Aspiration hazard |
| No data available |

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

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SECTION 12: Ecological information

12.1 Toxicity

| |
|---------------------------------|
| Toxicity to fish (acute) |
| No data available |

| |
|-----------------------------------|
| Toxicity to fish (chronic) |
| No data available |

| |
|------------------------------------|
| Toxicity to Daphnia (acute) |
| No data available |

| |
|--------------------------------------|
| Toxicity to Daphnia (chronic) |
| No data available |

| |
|----------------------------------|
| Toxicity to algae (acute) |
| No data available |

| |
|------------------------------------|
| Toxicity to algae (chronic) |
| No data available |

| |
|--------------------------|
| Bacteria toxicity |
| No data available |

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

| | |
|-------------------------------------------|--------------------|
| Results of PBT and vPvB assessment | |
| PBT assessment | No data available. |
| vPvB assessment | No data available. |

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.7 Other information

| |
|------------------------------------------------------------|
| Other information |
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

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Class 2
 Classification code 5F
 UN number UN1950
 Proper shipping name AEROSOLS
 Tunnel restriction code D
 Label 2.1

14.2 Transport IMDG

Class 2
 UN number UN1950
 Proper shipping name AEROSOLS
 EmS F-D, S-U
 Label 2.1

14.3 Transport ICAO-TI / IATA

Class 2.1
 UN number UN1950
 Proper shipping name Aerosols, flammable
 Label 2.1

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

| | |
|----------------------------------------------------------------------------------------|------|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. | No 3 |
|----------------------------------------------------------------------------------------|------|

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

| | |
|--------------------------------------------------------------|-----|
| This product is subject to Part I of Annex I, risk category: | P3a |
|--------------------------------------------------------------|-----|

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

| | |
|-------------|------|
| VOC content | 90 % |
|-------------|------|

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

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Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H220

Extremely flammable gas.

H280

Contains gas under pressure; may explode if heated.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

C

Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

U

When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.