

GLASSFLO 785 High Performance Dry Delivery Coating

Glassflo 785 is a dispersion of graphite in a thermal setting resin. Glassflo 785 is a dry coating system for scoops, troughs and deflectors used on all types of glass forming delivery equipment.

Dry delivery coatings are now used almost universally to provide lubrication between the delivery equipment and the gob. Glassflo 785 achieves this without the smoke, fumes or carbon build up associated with wet delivery lubricants. The durable, graphited, epoxy resin bonded coating provides long life lubrication ensuring constant and accurate gob delivery.

Features

- Air cured.
- Long life, graphited, epoxy resin bonded coating.
- Gives consistent delivery speed.
- Easily applied by brush.
- Suitable for patch coating.
- Unique easy mix container.

Directions for Use

Initial Preparation

- Remove all previous coating.
- For patch coating, clean with normal degreasing solvent.

Application

- Ensure delivery equipment is at 20°C to 25°C.
- Mix parts A & B together by puncturing Part B container and allowing contents to drain into the larger Part A container.
- Mix to uniform consistency.
- Once parts A & B are mixed curing will commence.
- Apply immediately after mixing.
- Only one coat is necessary.
- Recommended coating thickness not less than 1.0mm.
- Glassflo 785 will remain usable for up to 40 minutes after mixing depending on ambient temperature.

Cure Time

- Treated equipment ready for use after 8 hours at 20°C to 25°C. For best results leave for 24 hours before use.

T +44 (0) 113 232 2600
F +44 (0) 113 232 2740
E customer-service@rocol.com
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67
Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of **ITW** Ltd



BS EN ISO 9001
Certificate No. FM 12448



BS EN ISO 14001
Certificate No. EMS 67596



OHSAS 18001
Certificate No. OHS 78173



INVESTOR IN PEOPLE

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

Technical Data

ROCOL[®]

Performance you can trust

N.B.

On no account should Part B be added whilst PART A is warm otherwise it will harden immediately.

Should product be stored at temperatures below 10°C Part A may stiffen slightly. To bring back to workable condition simply mix Part A and allow to stabilise for 4 hours at room temperature (15 -20°C).

Appearance	Smooth black paste (Part A)
Solid Lubricant	Graphite
Solids Content	27% (Part A)
Binder	Epoxy Resin
Solvent	Glycol
Storage	Storage at 0°C to 40°C. Do not allow to freeze.
Pack Sizes – Part Codes	500g - 78844

Date: Jan-09

T +44 (0) 113 232 2600
F +44 (0) 113 232 2740
E customer-service@rocol.com
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67
Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of **ITW** Ltd



BS EN ISO 9001
Certificate No. FM 12448



BS EN ISO 14001
Certificate No. EMS 67596



OHSAS 18001
Certificate No. OHS 78173



INVESTOR IN PEOPLE

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.



SAFETY DATA SHEET
GLASSFLO 785 PART A

Page: 1

Compilation date: 18/01/2012

Revision No: 4

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

1.1. Product identifier

Product name: GLASSFLO 785 PART A

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

Use of substance / mixture: Glass industry lubricant

1.3. Details of the supplier of the safety data sheet

Company name: ROCOL

ROCOL House

Swillington

Leeds

West Yorkshire

LS26 8BS

ENGLAND

Tel: +44 (0) 113 232 2700

Fax: +44 (0) 113 232 2740

Email: customer-service@rocol.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 113 232 2600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xi: R36/38; Sens.: R43; N: R51/53

Most important adverse effects: Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: Irritant.

Dangerous for the environment.



Risk phrases: R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART A

Page: 2

Safety phrases: S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39: Wear suitable gloves and eye / face protection.
S35: This material and its container must be disposed of in a safe way.

Precautionary phrases: Contains epoxy constituents. See information supplied by the manufacturer.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

BISPHENOL A/F EPOXY RESIN

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	40216-08-8	Xi: R36/38; Sens.: R43; N: R51/53	-	50-70%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be pain and redness.
Ingestion: There may be irritation of the throat.
Inhalation: There may be coughing and a sore throat.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART A

Page: 3

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: Not applicable.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not normally required.

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Black

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART A

Page: 4

Odour: Characteristic odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Viscous

Flash point°C: > 100

Autoflammability°C: > 200

Relative density: >1

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be coughing and a sore throat.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART A

Page: 5

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: Only slightly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Absorbed only slowly into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(BISPHENOL A/F EPOXY RESIN)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART A

Page: 6

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used in s.2 and 3: R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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



SAFETY DATA SHEET

GLASSFLO 785 PART B

Page: 1

Compilation date: 23/12/2011

Revision No: 5

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

1.1. Product identifier

Product name: GLASSFLO 785 PART B

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

Use of substance / mixture: Glass industry lubricant

1.3. Details of the supplier of the safety data sheet

Company name: ROCOL

ROCOL House

Swillington

Leeds

West Yorkshire

LS26 8BS

ENGLAND

Tel: +44 (0) 113 232 2700

Fax: +44 (0) 113 232 2740

Email: customer-service@rocol.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 113 232 2600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xn: R21/22; C: R34; Sens.: R43

Most important adverse effects: Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases: R21/22: Harmful in contact with skin and if swallowed.

R34: Causes burns.

R43: May cause sensitisation by skin contact.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART B

Page: 2

S28: After contact with skin, wash immediately with plenty of soap and water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60: This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

DIETHYLENETRIAMINE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
203-865-4	111-40-0	Xn: R21/22; C: R34; Sens.: R43	-	10-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove and wash contaminated clothing before re-use. Initiate and maintain gentle and continuous irrigation for up to 1 hour or until the patient receives medical care. Consult a doctor. Note to Doctor: Application of corticosteroid cream has been effective in treating skin irritation.

Eye contact: Consult a doctor. Bathe the eye with running water for up to 1 hour or until medical care is available.

Ingestion: Consult a doctor. Do not induce vomiting without medical advice Do not give victim anything to drink if unconscious If unconscious and breathing is OK, place in the recovery position.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air. Consult a doctor. If unconscious, check for breathing and apply artificial respiration if necessary.

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

Skin contact: Severe burns may occur.

Eye contact: There may be severe pain. Corneal burns may occur. May cause permanent blindness.

Ingestion: There may be severe burns of the mouth and throat and danger of perforation of the oesophagus and the stomach. Nausea and stomach pain may occur.

Inhalation: There may be coughing and a sore throat. Damage to liver and kidneys may develop later.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART B

Page: 3

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Carbon dioxide. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: May generate ammonia gas. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. Use of water may result in formation of very toxic aqueous solutions.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Do not allow run-off from fire fighting to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Keep away from acids. Keep away from oxidisers.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART B

Page: 4

8.1. Control parameters

Hazardous ingredients:

DIETHYLENETRIAMINE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	4.3 mg/m ³	-	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure eye wash stations and safety showers are readily accessible.

Respiratory protection: Respiratory protection not normally required in well ventilated area.

Hand protection: Butyl gloves. Nitrile gloves. Neoprene gloves. PVC gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Ammoniacal

Evaporation rate: Negligible

Solubility in water: Slightly soluble

Viscosity: Viscous

Boiling point/range°C: >190

Flash point°C: 100

Vapour pressure: <1.0mm Hg at 21C

Relative density: 1.09

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART B

Page: 5

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Oxidising agents. Strong oxidising agents. Strong reducing agents. Acids. Will slowly corrode copper, aluminium, zinc and galvanised surfaces.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. Chlorine, Nitric acid, Ammonia, Nitrosamine

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	DRM ING	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Severe burns may occur.

Eye contact: There may be severe pain. Corneal burns may occur. May cause permanent blindness.

Ingestion: There may be severe burns of the mouth and throat and danger of perforation of the oesophagus and the stomach. Nausea and stomach pain may occur.

Inhalation: There may be coughing and a sore throat. Damage to liver and kidneys may develop later.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Volatile.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART B

Page: 6

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2735

14.2. UN proper shipping name

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
(DIETHYLENETRIAMINE(DETA))

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used in s.2 and 3: R21/22: Harmful in contact with skin and if swallowed.

R34: Causes burns.

R43: May cause sensitisation by skin contact.

[cont...]

SAFETY DATA SHEET

GLASSFLO 785 PART B

Page: 7

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