

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : F9 BARC
Product group : Blend

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

TR Bonnyman Son & Co
Willowburn Road
Willowyard Industrial Estate
KA15 1LN Beith - United Kingdom
T +44 1505 504716
hugh@bonnymans.co.uk - www.bonnymans.co.uk

1.4. Emergency telephone number

Emergency number : 0844 892 0111

Country	Organisation/Company	Address	Emergency number	Comment
	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only)	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 4 H302
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22
C; R34

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) : Danger
Hazardous ingredients : oxalic acid; AMMONIA SOLUTION >=25% - 35% (910 - 880)
Hazard statements (CLP) : H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
Precautionary statements (CLP) : P264 - Wash ... thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection

F9 BARC

Safety Data Sheet

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell
 P302+P352 - IF ON SKIN: Wash with plenty of water/...
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a POISON CENTER/doctor/...
 P321 - Specific treatment (see ... on this label)
 P330 - Rinse mouth
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P362+P364 - Take off contaminated clothing and wash it before reuse
 P501 - Dispose of contents/container to {0}message=<specify in accordance with local/regional/national/international regulations>|default=hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation|filter=(_)?DISPOSAL_+}

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PHOSPHORIC ACID 75%	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	7 - 11	C; R34	Skin Corr. 1B, H314
AMMONIUM BIFLUORIDE	(CAS No) 1341-49-7 (EC no) 215-676-4 (EC index no) 009-009-00-4	<= 7	T; R25 C; R34	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314
oxalic acid	(CAS No) 144-62-7 (EC no) 205-634-3 (EC index no) 607-006-00-8 (REACH-no) 01-2119534576-33	2 - 5	Not classified	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
AMMONIA SOLUTION >=25% - 35% (910 - 880)	(CAS No) 1336-21-6 (EC no) 215-647-6 (EC index no) 007-001-01-2 (REACH-no) 01-2119488876-14	2 - 4	C; R34 N; R50	Skin Corr. 1B, H314 Aquatic Acute 1, H400
ALCOHOL ETHOXYLATE WITH 9MEO	(CAS No) 68439-45-2	> 0.08	Xn; R22 Xi; R41	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits: DSD/DPD	Specific concentration limits: CLP
PHOSPHORIC ACID 75%	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	(10 =< C < 25) Xi; R36/38 (C >= 25) C; R34	(10 =<C < 25) Skin Irrit. 2, H315 (10 =<C < 25) Eye Irrit. 2, H319 (C >= 25) Skin Corr. 1B, H314
AMMONIUM BIFLUORIDE	(CAS No) 1341-49-7 (EC no) 215-676-4 (EC index no) 009-009-00-4	(0.1 =< C < 1) Xi; R36/38 (1 =< C < 10) Xn; R22 (C >= 1) C; R34 (C >= 10) T; R25	(0.1 =<C < 1) Skin Irrit. 2, H315 (0.1 =<C < 1) Eye Irrit. 2, H319 (C >= 1) Skin Corr. 1B, H314
oxalic acid	(CAS No) 144-62-7 (EC no) 205-634-3 (EC index no) 607-006-00-8 (REACH-no) 01-2119534576-33	(C >= 5) Xn; R21/22	
AMMONIA SOLUTION >=25% - 35% (910 - 880)	(CAS No) 1336-21-6 (EC no) 215-647-6 (EC index no) 007-001-01-2 (REACH-no) 01-2119488876-14	(5 =< C < 10) Xi; R36/37/38 (C >= 10) C; R34	(C >= 5) STOT SE 3, H335

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

F9 BARC

Safety Data Sheet

First-aid measures after ingestion : Rinse mouth.

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

Symptoms/injuries after skin contact : Irritation.
Symptoms/injuries after eye contact : Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

AMMONIUM BIFLUORIDE (1341-49-7)		
EU	IOELV TWA (mg/m ³)	2.5 mg/m ³ (EU ELV, Time Weighted Average (TWA))

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

F9 BARC

Safety Data Sheet

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: clear.
Odour	: characteristic.
Odour threshold	: No data available
pH	: < 2
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 1
Relative density	: No data available
Density	: 1.075 g/l
Solubility	: Soluble.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified

F9 BARC

Safety Data Sheet

Acute toxicity (inhalation) : Not classified

AMMONIUM BIFLUORIDE (1341-49-7)

LD50 oral rat	ca. 130 mg/kg (OECD Test Guideline 401)
LC50 inhalation rat (mg/l)	ca. 1276 mg/l (1 hour)

ALCOHOL ETHOXYLATE WITH 9MEO (68439-45-2)

LD50 oral rat	> 200 - 2000 mg/kg
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Skin corrosion/irritation : Causes skin irritation.
pH: < 2

Serious eye damage/irritation : Causes serious eye damage.
pH: < 2

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Aquatic acute : Not classified

Aquatic chronic : Not classified

12.2. Persistence and degradability

AMMONIUM BIFLUORIDE (1341-49-7)

Persistence and degradability	Not applicable for inorganic gases.
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12.3. Bioaccumulative potential

AMMONIUM BIFLUORIDE (1341-49-7)

Bioaccumulative potential	No bioaccumulation potential.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

14.1. UN number

UN-No. (ADR) : 1805

UN-No. (IMDG) : 1805

UN-No.(IATA) : 1805

UN-No.(ADN) : 1805

UN-No. (RID) : 1805

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PHOSPHORIC ACID, LIQUID

Proper Shipping Name (IMDG) : PHOSPHORIC ACID SOLUTION

F9 BARC

Safety Data Sheet

Proper Shipping Name (IATA)	: PHOSPHORIC ACID, SOLUTION
Proper Shipping Name (ADN)	: PHOSPHORIC ACID, SOLUTION
Proper Shipping Name (RID)	: PHOSPHORIC ACID, SOLUTION
Transport document description (ADR)	: UN 1805 PHOSPHORIC ACID, LIQUID, 8, III, (E)
Transport document description (IMDG)	: UN 1805 PHOSPHORIC ACID SOLUTION, 8, III
Transport document description (IATA)	: UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III
Transport document description (ADN)	: UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III
Transport document description (RID)	: UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8



IMDG

Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8



IATA

Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8



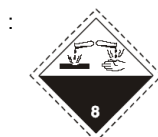
ADN

Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8



RID

Transport hazard class(es) (RID)	: 8
Danger labels (RID)	: 8



14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III

F9 BARC

Safety Data Sheet

Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C1
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Mixed Portable tank and bulk container instructions (ADR) : T4
Mixed Portable tank and bulk container special provisions (ADR) : TP1
ADR tank codes (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2R

- Transport by sea

Special provision (IMDG) : 223
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provision (IATA) : A3
ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C1
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T

F9 BARC

Safety Data Sheet

Equipment required (ADN) : PP, EP
 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C1
 Limited quantities (RID) : 5L
 Excepted quantities (RID) : E1
 Packing instructions (RID) : P001, IBC03, LP01, R001
 Mixed packing provisions (RID) : MP19
 Portable tank and bulk container instructions (RID) : T4
 Portable tank and bulk container special provisions (RID) : TP1
 Tank codes for RID tanks (RID) : L4BN
 Transport category (RID) : 3
 Special provisions for carriage – Packages (RID) : W12
 Colis express (express parcels) (RID) : CE8
 Hazard identification number (RID) : 80

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	F9 BARC - ALCOHOL ETHOXYLATE WITH 9MEO - AMMONIA SOLUTION >=25% - 35% (910 - 880) - PHOSPHORIC ACID 75%
3(b) Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	F9 BARC - ALCOHOL ETHOXYLATE WITH 9MEO - AMMONIA SOLUTION >=25% - 35% (910 - 880) - PHOSPHORIC ACID 75%
3(c) Hazard class 4.1	AMMONIA SOLUTION >=25% - 35% (910 - 880)

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H400	Very toxic to aquatic life
R22	Harmful if swallowed
R25	Toxic if swallowed

F9 BARC

Safety Data Sheet

R34	Causes burns
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
C	Corrosive
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product