

SECTION 1 IDENTITY OF SUBSTANCE OR PREPARATION & COMPANY

COMPANY/UNDERTAKING: Advanced Chemical Specialties Limited
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☎ (+44) 01935-414012. 📠 (+44) 01935-414022. ✉ info@acslimited.co.uk

PRODUCT NAME: ACS FC0 LIQUID FIRE RETARDANT

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

Use of substance / preparation:

Impregnating liquid for application to interior and/or exterior timber and timber composite materials to impart fire retardant properties.
Waterborne system for buildings and structures in commercial, industrial and domestic environments

1.3 Details of the supplier of the safety data sheet

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SECTION 2 HAZARD IDENTIFICATION**2.1 Classification of the substance or mixture**

Irritating to eyes and skin

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

2.2 Label elements

Labelling (GHS):



Signal Word: WARNING

Special identification instructions:

P102 - Keep out of reach of children.

P280 – Wear protective gloves and eye protection

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water

P333 + P313 – If skin irritation occurs: Get medical advice/attention

P305 +351 + 338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing

P337 + 313 – If eye irritation persists: Get medical advice/attention

2.3 Other hazards

None

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not Applicable

3.2 Mixtures

Contains Ferric III Dihydrogen Phosphate

3.2.1 Chemical characterization (mixtures)

Aqueous fire retardant for amateur and professional use

SECTION 4 FIRST AID MEASURES**4.1 Description of first aid measures****General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After inhalation:

Provide fresh air. Keep warm and rested.

After contact with the skin:

Wash with plenty of water or water and soap. If irritation occurs, seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After swallowing:

Do not induce vomiting. Rinse mouth with clean water and seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5

FIRE FIGHTING MEASURES

EAC -

5.1 Extinguishing media

Suitable extinguishing media:

Product is essentially non-combustible. Use extinguishing media suitable for surrounding fire

Extinguishing media which must not be used for safety reasons:

None

5.2 Special hazards arising from the substance or mixture

None known

5.3 Advice for fire fighters

Wear suitable protective gloves, eye protection and coveralls

Special protective equipment for fire fighting:

No special precautions necessary

SECTION 6

ACCIDENTAL RELEASE / SPILLAGE CONTROL MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapours.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

6.3 Methods and material for containment and cleaning up

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/regional/national regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

Further information:

None.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7

HANDLING AND STORAGE

7.1 Precautions for safe handling

General information:

Wear suitable gloves and eye/face protection.

Precautions for safe handling:

Avoid formation of aerosols. In case of aerosol formation special protective measures are required (good levels of natural ventilation, exhausting by suction, respiratory protection). Ensure adequate ventilation.

Precautions against fire and explosion:

Heating may cause pressure rise with subsequent risk of bursting. Cool containers exposed to fire with water

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Prolonged storage in sealed containers may cause some pressurization through the formation of CO₂. Vent containers periodically if stored over long periods.

Advice for storage of incompatible materials:

Not applicable

Further information for storage:

Minimum temperature allowed during storage and transportation: 5 °C

Do not allow this material to freeze.

Maximum temperature allowed during storage and transportation: 40 °C

7.3 Specific end use(s)

No data are available.

SECTION 8

EXPOSURE CONTROLS/PPE

8.1 Control parameters

Maximum airborne concentrations at the workplace:

No data available for the product itself.

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Do not inhale gases/vapours/aerosols. Wash hands and exposed skin before eating, drinking or smoking.

Personal protection equipment:

Respiratory protection

In accordance with instructions: not required . In case of aerosol or mist formation or in areas of poor ventilation, use respiratory protection. Combi filter A/P2. Otherwise natural ventilation is usually sufficient.

Hand protection

Nitrile rubber protective gloves. Protective gloves made of butyl rubber. Gloves suitable for up to 60 minutes use.

Eye protection

Safety glasses with side shields.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil

SECTION 9

PHYSICAL / CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information:

Physical state / form.....: liquid
 Colour: Clear to slightly green
 Odour: slight

Important information about the protection of health, safety and the environment:

Property:	Value:	Method:
Melting point / melting range	Not Applicable	
Boiling point / boiling range	100 °C	
Flash point.....	Not applicable	
Sustained combustibility.....	Not applicable	
Ignition temperature	Not applicable	
Lower explosion limit (LEL)	Not applicable	
Upper explosion limit (UEL).....	Not applicable	
Vapour pressure.....	Not known	
Density	1.20 – 1.30 g/cm ³	
Water solubility / miscibility.....	completely miscible	
pH-Value	approx. 7-9	
Viscosity (dynamic)	Not Determined	

9.2 Other information

None

SECTION 10

STABILITY AND REACTIVITY

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

Prolonged storage may lead to some pressurization of containers through the formation of CO₂

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

May react with: acids and alkalis.

10.6 Hazardous decomposition products

None Known

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

No data on acute inhalation toxicity is available for this product. In case of aerosol formation do not breathe spraymist

Acute toxicity estimate (ATE):

For this endpoint no toxicological test data is available for the whole product

11.1.2 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product. May cause skin irritation through prolonged or repeated contact

11.1.3 Serious eye damage / eye irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product. May cause some transient eye irritation

11.1.4 Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product. Contains no known sensitization materials

11.1.5 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product. Contains no recognized mutagenic materials

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product. Contains no known carcinogenic materials.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product. Product contains no recognized reprotoxicant material

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Further toxicological information

SECTION 12

ECOLOGICAL INFORMATION

12.1 Toxicity

Assessment:

According to current knowledge adverse effects on water purification plants are not expected.

12.2 Persistence and degradability

Assessment:

The product contains no materials known to be persistent in soil.

12.3 Bioaccumulative potential

Assessment:

Bioaccumulation is not expected to occur

12.4 Mobility in soil

Assessment:

Separation by sedimentation.

12.5 Results of PBT and vPvB assessment

No data are available.

12.6 Other adverse effects

None known

SECTION 13

WASTE DISPOSAL

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Dispose of waste product according to local/regional/national regulations. If product is useable, store for future use.

13.1.2 Un-cleaned packaging

Recommendation:

Completely empty containers (no residues, rinsed with clean water). Containers may be recycled or re-used. Observe local/regional/national regulations.

13.1.3 Waste Disposal Legislation Ref No. (EC).

Dispose of in accordance with The Environmental Protection Act 1990, at a waste treatment site approved and licensed by the local authority and operated by an approved, competent and licensed waste disposal contractor.

Duty of care waste transfer form should specify: EWC (European Waste Code): Not known

SECTION 14

TRANSPORT PRECAUTIONS

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:

Valuation: Not classified as hazardous for transportation by road

Railway RID:

Valuation: Not classified as hazardous for transportation by rail

Transport by sea IMDG-Code:

Valuation: Not classified as hazardous for transportation by sea

Air transport ICAO-TI/IATA-DGR:

Valuation: Not classified as hazardous for transportation by air

14.5 Environmental hazards

None known. Base components are used as environmentally friendly molluscicide.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not required.

SECTION 15

REGULATORY INFORMATION

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16**OTHER INFORMATION****Key to risk phrases used in section 2.**

P102 - Keep out of reach of children.

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Further reading:

L25 – Personal Protective Equipment at Work

EH/40 – Occupational Exposure Limits (revised annually)

The Health & Safety at Work Act 1974

HSG206 – Cost Effectiveness of Chemical Protective Gloves for the Workplace

HSG53 – The Selection, Use and Maintenance of Respiratory Protective Equipment

The Environmental Protection Act 1990

The Collection and Disposal of Waste Regulations

L5 – The Control of Substances Hazardous to Health Regulations 2003 Approved Code of Practice

Information on these and other relevant publications may be found by contacting the following:

E-mail: hsebooks@prologue.uk.com or www.hsebooks.co.uk

Alternatively, most Approved Codes of practice are now available to download for free: visit www.hse.gov.uk or www.businesslink.gov.uk and click on 'Workplace Health and safety'

Or write to: HSE Books, P.O. Box 1999, Sudbury, Suffolk CO10 2WA (Tel: 01787-881165) and obtain a free copy of the HSE Books catalogue.

The Health and safety Executive can also keep you regularly updated with new legislation and HSE news by going to:

www.hse.gov.uk and following the links to the e-Bulletins

THE FOLLOWING SECTIONS SHOW CHANGED OR AMENDED INFORMATION:

Revised from first issue. All sections show changes

COMPILED BY: P Parton

DATE: January 2016

NOTICE TO CUSTOMER:

ENSURE ALL POTENTIAL USERS OF THIS PRODUCT ARE AWARE OF THIS SDS PRIOR TO PRODUCT'S USE.

KEEP SDS IN A SAFE PLACE READILY LOCATABLE IN CASE OF FUTURE USE.

READ THIS SDS IN CONJUNCTION WITH ANY LABEL AND DIRECTIONS FOR USE ON THE PRODUCT CONTAINER.

DESTROY ALL OBSOLETE COPIES RELATING TO THIS PRODUCT.

THIS SDS RELATES ONLY TO THE PRODUCT SPECIFIED.

COPIES OF THIS DOCUMENT ARE AVAILABLE ON REQUEST.

THIS SAFETY DATA SHEET IS BASED ON THE BEST OF CURRENT INFORMATION AND ADVICE AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE. NO LIABILITY CAN BE ACCEPTED FOR ANY LOSS, DAMAGE OR INJURY AS CONDITIONS OF USE ARE OUTSIDE OUR CONTROL. THIS IS NOT A TECHNICAL SPECIFICATION.