



MERCHEM LIMITED

SAFETY DATA SHEET

MERSTAB FS
MSDS No. 39/20.03.2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name Merstab FS
Synonym Quarternary Ammonium chloride Surfactant
formulated in Iso propanol

1.2 Use of the Substance/Mixture

Identified uses Foam stabilizer

1.3 Manufacturer or supplier's details

Company/Undertaking identification address Merchem Limited
Grove Centre,
44- Development Plot,
Kalamassery,
Cochin – 683 109, Kerala, India
Telephone + 91-484-4089300
Telefax + 91-484-4089310

1.4 Emergency Telephone Number

Emergency Telephone Number + 91-484-4089300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to EU directives 67/548/EEC or 1999/45/EC

Xn

EC Number: Nil

Annex 1 Index Number: Nil

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

skin irritation (Category 2)

eye irritation(Category 2B)

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Product Name: Merstab FS



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Hazard pictograms :



Signal Word Warning

Hazard Statements

H315 causes skin irritation

Precautionary Statements - Prevention

P264 Wash hands thoroughly after handling..

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

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

P332 + P313 IF SKIN irritation occurs: Get medical advice/attention

Precautionary Statements - storage

P402+P404 Store in a dry place. Store in a closed container

Precautionary Statements - Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements : None

2.3 Other hazards : None

Note : For the full text of the R phrases, S phrases, and symbols mentioned in this Section, see Section 16

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable. The substance is a mixture

3.2 Mixtures

Chemical description : Quarternary ammonium Chloride with ammonium chloride and isopropanol



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Composition/Information on ingredients

Chemical Name	CAS No.	EC No.	Annex-1 Index No.	Weight %
Stearyl trimethylammonium chloride	112-03-8	--	-	>1
Ammonium Chloride	12125-02-9	--	-	>1
Diethanolamine	111-42-2	--	-	<0.1
Iso Propyl alcohol	67-63-0	-	-	>1
Water	7732-18-5	--	-	>10

SECTION 4: FIRST AID MEASURES

4.1 Description of first-aid measures

General advice : If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. Treat symptomatically. Will not cause any significant or major health hazards. Prolonged exposure may cause headache and dizziness due to isopropyl alcohol.

Inhalation : Move to fresh air. If symptoms persist, seek medical advice.

Skin : For skin contact flush with large amounts of water. If irritation persists get medical attention. Immediately take off all contaminated clothing. Wash clothing separately before reuse.

Eyes : Rinse thoroughly with plenty of water. Eyelids should be held away from eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Ingestion : If ingestion of a large amount does occur, seek medical attention. If swallowed, do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed

No data available

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: waterspray, water mist, foam, dry chemical powder, CO₂

5.2 Specific hazards arising from the substance or mixture

Irritating and toxic gases or fumes may be released during a fire. Decomposition of this product may yield oxides of sulfur and nitrogen



5.3 Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear..

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Do not let product enter drains.
- Discharge into the environment must be avoided

6.3 Methods and materials for containment and cleaning up

- Prevent entry into waterways, sewers, basements or confined areas.
- Eliminate ignition sources including sources of electrical, static or frictional sparks.

Small Spills:

- Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spills:

- Dike far ahead of liquid spill for later disposal

6.4 Reference to other sections

- See section 7,8 & 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Avoid contact with skin and eyes.
- Avoid breathing vapors or mists of this product.
- Use non-sparking tools when opening or closing containers.
- Wash hands thoroughly after handling

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry area.
- Keep the container in a well-ventilated place.
- Keep away from heat, sparks, and flame.
- Prevent electrostatic charge build-up by using common bonding and grounding techniques.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 it can be used as a surfactant



SECTION 8: EXPOSURE CONTROL/PERSONNEL PROTECTION

8.1 Control parameters

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits

8.2 Exposure controls

Occupational exposure limits

No data available

Personal Protective Equipment:

General : Eye wash fountain and emergency showers are recommended

Eye/face Protection : Wear chemical goggles. Face-shield.

Skin Protection : Wear suitable protective clothing. Use impervious gloves.

Respiratory protection : When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full facepiece operated in a positive-pressure mode.

Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance Form : Liquid
- b) colour : colourless/Pale yellow
- c) Odour : Characteristic
- d) pH : 8.0-9.0
- e) Melting point/range : NA
- f) Boiling point /boiling range : 100 C (212 F) at 760 mmHg
- g) Flash point : No data available
- h) Explosive propertive : No data available
- i) Flammability (solid, gas) : No data available
- j) Explosion Limits : No data available
- k) Vapour pressure : < 23 mmHg at 25 C (77 F)
- l) Specific gravity : 1.04 at 25 C (77 F).
- m) Bulk density : NA
- n) solubility : Soluble in water
- o) Partition coefficient : No data available
- p) Auto-ignitiontemperature : No data available
- q) Viscosity @25°C : 100 to 500 cps at 25 C (77 F).
- r) Oxidizing properties : No data available



9.2 Other information

No data available

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

- No data available

10.4 Conditions to Avoid

- Heat, Open flame

10.5 Incompatible materials to avoid

- Strong Oxidising agents & strong Acids

10.6 Hazardous Decomposition Products

- Thermal decomposition : Oxides of Sulphur and Oxides of Carbon,

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity (LD50/oral/rat) : 3800 mg/kg, rat.

Acute dermal toxicity (LD50/dermal/rabbit) : LD50 - lethal dose 50% of test species, 6300 mg/kg,

Inhalation : No data available

Skin irritation/sensitization : skin irritation, rabbit. Moderately irritating. Not sensitizing

Eye Irritation : eye irritation, rabbit. Irritating.

Chronic Toxicity : This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens

Carcinogenicity : Not classifiable as a human carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecotoxicity ; No data Available

Fish : **No data available**

Algae : No data available



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12.2 Mobility in soil

No data available

12.3 Persistence and degradability

No data available.

12.4 Bioaccumulative Potential

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

May cause long term adverse effects to aquatic life

12.7 Other information

Do not allow product to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method

Product

- Avoid discharge into the environment.
- Disposal should be in accordance with local, state regulations

Packing

- Dispose off in accordance with local regulations

SECTION 14: TRANSPORT INFORMATION

14.1 Road transport (ADR/RID/ADN)

ADR/RID Class	None
UN-No	Nil
Packing Group	Nil
Hazardous label	Not dangerous goods
Proper Shipping Name	None

14.2 Sea transport (IMDG)

Class	None
UN-No	Nil
Packing Group	Nil
Marine pollutant	No
Proper Shipping Name	Not dangerous goods

14.3 Air transport (ICAO-TI/IATA)

Class	None
UN-No	Nil
Packing Group	Nil
Hazardous label	Not dangerous goods
Proper Shipping Name	Nil

14.4 Other information

No data available





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14.5 Environmental hazards

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

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

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

Regulation 1907/2006 REGULATION (EC) No 1272/2008

Classification according to EU directives 67/548/EEC or 1999/45/EC

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

Issue No.	2
Issue date date:	20.03.2015
Revision No.	0
Reason for revision	Reviewed & revamped based on the guide lines of Regulation (EC) No 1907/2006

List of relevant R(isk)-phrase(s)

None

List of relevant S(afety)-phrase(s)

S 36/37 Wear suitable protective clothing and gloves

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

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Classification of dangerous substance directive (67/548/EEC)

Xn - Harmful

Training advice

Provide adequate information, instruction and training to operators

Further information for the material safety data sheet

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

End of Material Safety Data Sheet