



Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name ISS 6% AFFF (EGY-C6B)

1. Identification	
1.1.Product Identifier Product name	ISS 6% AFFF (EGY-C6B)
1.2. Other means of identification	
Product code	770812
Synonyms	None
Chemical Family	No information available
1.3. Recommended use of the chem	nical and restrictions on use
Recommended use	Fire extinguishing agent.
Uses advised against	Consumer use.
1.4. Details of the Supplier of the Sa	afety Data Sheet
Company Name	Int. Security&Safety Systems
	49.Abbass EL Akaad St.
	Nasr city-CAIRO-EGYPT
	Telephone: 002-02-22602808
Contact point	Product Manager
E-mail address	info@isssystems.com

2. Hazards Identification

Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2.Label Elements

Hazard Statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Precautionary Statements

2.3. Hazards Not Otherwise Classified (HNOC) Not Applicable.

2.4. Other Information Unknown Acute Toxicity

4.1955% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients



3.1.Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
2-(2-Butoxyethoxy)ethanol	112-34-5	1 - 5
Polyfluorinated alkyl polyamide	Proprietary	0.1 - 1

4. First aid measures

4.1.Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.	
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately	

if symptoms occur.). Ingestion Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison

control center or physician immediately.

4.2.Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

4.3.Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

5.1.Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media None.

5.3. Specific Hazards Arising from the Chemical None known.

Hazardous Combustion Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur Products

5.4. Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

5.5. 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.

6. Accidental release measures



6.1. Personal precautions, protective	e equipment and emergency procedures
Personal Precautions	Ensure adequate ventilation, especially in confined areas.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental Precautions	
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.
6.3. Methods and material for contain	nment and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
7. Handling and Storage	
7.1. Precautions for Safe Handling	
Advice on safe handling	Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

8.1.Control Parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
2-(2-Butoxyethoxy)ethanol	TWA: 10 ppm inhalable	-	-	-
112-34-5	fraction and vapor			
ACCIH (American Conference of Covernmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the				

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

8.2. Appropriate Engineering Controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

8.3. Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes. Tight sealing safety goggles.
Skin and Body Protection	Wear protective gloves and protective clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.



Ventilation

Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State Odor Odor Threshold	Liquid Characteristic No data available	Color	Light yellow
Propert y pH Melting point/freezing point Boiling point / boiling range Flash Point Evaporation Rate Flammability (solid, gas) Flammability limit in air Upper flammability limit: Lower flammability limit: Vapor Pressure Vapor Density Specific gravity Water Solubility Solubility in Other Solvents	Values7No data availableNo data available	<u>Remarks • Method</u>	
Partition coefficient Autoignition Temperature Decomposition Temperature Kinematic viscosity Density	No data available No data available No data available No data available 1.01		

10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2.Reactivity

No data available

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5.Incompatible Materials

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Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

11. Toxicological Information

<u>11.1.</u>	Information on Likely Routes of Exposure
Product information	No data available
Inhalation	No data available.
Eye Contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Component Information Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol 112-34- 5	= 5660 mg/kg(Rat)	= 2700 mg/kg (Rabbit)	-
Polyfluorinated alkyl polyamide	>2000 mg/kg	>2000 mg/kg	>5.11 mg/l

<u>11.2.</u>

Information on Toxicological Effects

Symptoms

No information available.

11.3. short and long-term exposure No information available.	Delayed and immediate effects as well as chronic effects from Skin Corrosion/Irritation	
Serious eye damage/eye irritation Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity STOT - Single Exposure	No information available. No information available.	
<u>11.4.</u> The following values are calculated ATEmix (oral) ATEmix (dermal)	Numerical Measures of Toxicity - Proc based on chapter 3.1 of the GHS document 59588 mg/kg 64355 mg/kg	luct information

12. Ecological Information

<u>12.1.</u> Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment				
Chemical name	Algae/aquatic plants	Fish	Crustacea	



2-(2-Butoxyethoxy)ethanol	EC50 (96h) > 100 mg/L	LC50 (96h) static = 1300 mg/L	EC50 (48h) > 100 mg/L Daphnia
112-34-5	Desmodesmus subspicatus	Lepomis macrochirus	magna EC50 (24h) = 2850 mg/L
			Daphnia magna

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Sodium Citrate	EC50 (96h) 18000 - 32000 mg/L	LC50 (96h) 18000 - 32000 mg/L	EC50 (48h) 5600 - 10000 mg/L	
68-04-2	Chlorella vulgaris	Poecilia reticulata	Daphnia magna	
2-Methyl-2,4-pentanediol 107- 41-5			EC50 (48h) 2700 - 3700 mg/L Daphnia magna	
t-Butanol 75-65- 0	EC50 (72h) > 1000 mg/L Desmodesmus subspicatus	LC50 (96h) flow-through 6130 - 6700 mg/L Pimephales promelas	EC50 (48h) Static 4607 - 6577 mg/L Daphnia magna EC50 (48h) = 933 mg/L Daphnia magna	
1-Octanol 111-87-5	EC50 (48h) static = 14 mg/L Desmodesmus subspicatus	LC50 (96h) static = 17.68 mg/L Oncorhynchus mykiss LC50 (96h) flow-through 11.4 - 12.9 mg/L Pimephales promelas	EC50 (24h) 15 - 26 mg/L Daphnia magna	
4,4 ⁻ bis-(sulfostyryl)-biphenyl disodium salt 27344-41-8	EC50 (72h) = 10 mg/L Desmodesmus subspicatus EC50 (96h) 10.0 - 11.0 mg/L Desmodesmus subspicatus	LC50 (96h) static = 76 mg/L Brachydanio rerio	EC50 (48h) = 1000 mg/L Daphnia magna	

Concentrate

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Method	Biological Test Method: Acute Lethality Using Threespine Stickleback (Gasterosteus aculeatus) (EPS 1/RM/10)
Species	Gasterosteus aculeatus
Endpoint type	LC50
Effective dose	6780 mg/L
Exposure time	96h
6% Solution	
Method	Biological Test Method: Acute Lethality Using Threespine Stickleback (Gasterosteus aculeatus) (EPS 1/RM/10)
Species	Gasterosteus aculeatus
Endpoint type	LC50
Effective dose	113000 mg/L
Exposure time	96h

Polyfluorinated alkyl polyamide					
Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	>14 mg/l	96h	NOEC: 14 mg/L No toxic effects at saturation.
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Algae	ErC50	>15 mg/l	72h	Growth rate >15, Yield 13. NOEC: 4.0 mg/L, LOEC: 8.5 mg/L
OECD Test No. 202: Daphnia sp., Acute Immobilization Test		EC50	>20 mg/l	48h	NOEC: 20 mg/L No toxic effects at saturation.

12.2. Persistence and Degradability

Chemical Oxygen Demand (mg/L)

Concentrate	100,000
6% Solution	6,200

Concentrate Biological Oxygen Demand (mg/L)

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Biological Oxygen Demand (5 Day) %BOD/COD
Biological Oxygen Demand (10 Day) %BOD/COD
Biological Oxygen Demand (15 Day) %BOD/COD
Biological Oxygen Demand (20 Day) %BOD/COD
6% Solution Biological Oxygen Demand (mg/L)

Solution Diological Oxygen Demand (mg/L)	
Biological Oxygen Demand (5 Day)	540
%BOD/COD	8.71
Biological Oxygen Demand (10 Day)	3700
%BOD/COD	59.68
Biological Oxygen Demand (15 Day)	4100
%BOD/COD	66.13
Biological Oxygen Demand (20 Day)	4900
%BOD/COD	79.03

<u>12.3.</u> <u>Bioaccumulation</u> No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations				
<u>13.1.</u> Disposal of wastes	Waste Treatment Methods Disposal should be in accordance with applicable regional, national and local laws and regulations.			
Contaminated Packaging	Do not reuse container.			
14. Transport Informatio	n			
DOT	NOT REGULATED			
<u>TDG</u>	NOT REGULATED			
MEX	NOT REGULATED			
ICAO (air)	NOT REGULATED			
IATA	NOT REGULATED			
IMDG	NOT REGULATED			

15. Regulatory Information	
15.1. International Inventories	
TSCA	Complies
DSL/NDSL	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply



PICCS	
AICS	

Does not comply Does not comply

Legend:

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

 AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %	
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0	
SARA 311/312 Hazard Categories		
Acute Health Hazard	No	
Chronic health hazard	No	
Fire Hazard	No	
Sudden Release of Pressure Hazard	No	
Reactive Hazard	No	

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

15.3. US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-(2-Butoxyethoxy)ethanol 112-34-5	Х	-	Х
2-Methyl-2,4-pentanediol 107- 41-5	Х	X	Х
t-Butanol 75-65- 0	Х	X	Х
1-Octanol 111-87-5	-	-	Х

16. Other information, including date of preparation of the last revision



<u>NFPA</u>	Health Hazards 0	Flammability 0	Instability 0	Physical and chemical
HMIS	Health Hazards 0	Flammability 0	Physical Hazards 0	properties - Personal Protection X

Revision date 02-Mar-2017

Revision note SDS sections updated, 12.

Disclaimer

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

End of Safety Data Sheet