Fluor Free Extinguisher – EX1 FF

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

1.1 - Product identifier

Trade name/designation : Fluor Free Extinguisher – EX1 FF

Chemical name

Product-type	Mixture
Product code	6017215 : E6A15FF (131034A) ; E9A1FF (0131042A) ; E45A1FF (0131231A)
UFI:	XRNJ-1AKT-6J0A-987X

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

Relevant identified uses	- Extinguishing fires, fires A and B, between +5°C and +60°C
Uses advised against	- Refer to the instructions on the unit.

1.3 - Details of the supplier of the safety data sheet

USINES DESAUTEL
5 Boulevard du Maréchal de Lattre de Tassigny
69330 Meyzieu
Website https://www.desautel.fr - Contact: contact@desautel.fr

1.4 - Emergency telephone number

- UK : National Poisons Information Service (Birmingham Centre) City Hospital (UNITED KINGDOM) Dudley road
B18 7 QH Birmingham 0870 600 62 66 (UK only) United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

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

Not Classified	Not classified

2.2 - Label elements

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

Signal word	:	None
Pictograms	:	None
Hazard statements	:	None
Precautionary statements	:	None
EUH-phrases	:	None

2.3 - Other hazards

PBT-substance.	- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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vPvB-substance.	- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Other hazards which do not result in classification	- No information available.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	CAS No. : 112-34-5 Index No. : 603-096-00-8 EC No. : 203-961-6 REACH No. : 01-2119475104-44	5 - 15	Eye Irrit. 2 - H319	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation	- No special measures are necessary. - Provide fresh air.
Following skin contact	- After contact with skin, wash immediately with plenty of waterand soap. - In case of skin irritation, consult a physician.
After eye contact	- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
After ingestion	- Rinse mouth thoroughly with water. - Do NOT induce vomiting.

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

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Symptoms and effects - Following inhalation	- No information available.
Symptoms and effects - Following skin contact	- non-irritant.
Symptoms and effects - After eye contact	- non-irritant.
Symptoms and effects - After ingestion	- No information available.

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	- ABC-powder - Carbon dioxide (CO2) - Foam - Extinguishing powder
Unsuitable extinguishing media	- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture	- No information available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	- Use personal protection equipment.
For emergency responders	- No information available.

6.2 - Environmental precautions

- No information available.

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6.3 - Methods and material for containment and cleaning up

Methods and material for containment	- No information available.
Methods and material for cleaning up	- Take up mechanically. - Wash with plenty of water.
Inappropriate techniques	- No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation	- Avoid: Eye contact - Avoid: Generation/formation of dust - It is recommended to design all work processes always sothat the following is excluded: Eye contact - Avoid: Skin contact - It is recommended to design all work processes always sothat the following is excluded: Skin contact - Before dismantling the unit, always check the absence ofinternal pressure, do not position your head above the fire extinguisher.Recover the used fire extinguishing charge for destruction by an approved die. - The fire extinguisher is a pressure vessel that must only beopened by qualified personnel. - Maintenance operations must be performed by qualified andauthorized personnel. - Spare parts used in maintenance must conform to thecertified model.
Advices on general occupational hygiene	- Used working clothes should not be worn outside the workarea. - When using do not eat, drink, smoke, sniff.

- Wash hands before breaks and after work.

7.2 - Conditions for safe storage, including any incompatibilities

- Store in a place accessible by authorized persons only.

7.3 - Specific end use(s)

- Fire extinguishing agent

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SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5)	
IOELV TWA mg/m3 (UE)	67,5 mg/m3
IOELV TWA ppm (UE)	10 ppm
IOELV STEL mg/m3 (UE)	101,2 mg/m3
IOELV STEL ppm (UE)	15 ppm

8.2 - Exposure controls

Appropriate engineering controls: - No information available.

Individual protection measures, such as personal protective equipment:

- Tested protective gloves must be worn



- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Barrier creams are not substitutes for body protection.
- Eye protection





- Protective clothing

Environmental exposure controls: - Further information: see technical data sheet.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Physical state	Solid	Appearance	Liquid
Colour	Rouge (RAL3000)	Odour	characteristic

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Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	No data available
Solubility (Water)	No data available
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

Particle characteristics

Particle size	No data available

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

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- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Based on available data, the classification criteria are not met.

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

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Reproductive toxicity	- Not classified
STOT-single exposure	- Not classified
STOT-repeated exposure	- Not classified
Aspiration hazard	- Not classified

11.2 - Information on other hazards

- Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or more.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- The substance/mixture does not full fill the criteria of the acute aquatic toxicity according to Regulation (EC) No1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

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12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
- The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods - Dispose of waste according to applicable legislation.

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Sewage disposal	- Do not allow run-off from fire-fighting to enter drains or water courses.
Special precautions for waste treatment	- Recover the used fire extinguishing charge for destruction by an approved die.
Community or national or regional provisions	- Dispose according to legislation.

SECTION 14: Transport information

14.1 - UN number or ID number

UN number (ADR)	:	UN1044
UN number (IMDG)	:	UN1044
UN number (IATA)	:	UN1044

14.2 - UN proper shipping name

UN proper shipping name (ADR)	:	FIRE EXTINGUISHERS (carbon dioxide)
UN proper shipping name (IMDG)	:	FIRE EXTINGUISHERS (carbon dioxide)
UN proper shipping name (IATA)	:	FIRE EXTINGUISHERS (carbon dioxide)

14.3 - Transport hazard class(es)

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ADR Transport hazard class(es)	:	2
ADR Classification code:	:	6A
Pictograms		
Transport hazard class(es) (IMDG)	:	2
Pictograms		
Transport hazard class(es) (IATA)	:	2
Pictograms		

14.4 - Packing group

Packing group	:
Packing group (IMDG)	:
Packing group (IATA)	:

14.5 - Environmental hazards

Environmental hazards	:	No
Marine pollutant	:	No

14.6 - Special precautions for user

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ADR		
ADR Classification code:	:	6A
ADR Special provisions	:	225+594
ADR Limited quantity (LQ)	:	120ml
ADR Excepted quantities	:	E0
ADR Packing instructions	:	P003
ADR Special packing provisions	:	PP91
ADR Mixed packing provisions	:	MP9
Instructions for portable tanks and bulk containers	:	
Special provisions for portable tanks and bulk containers	:	
ADR tank code	:	
ADR tanks special provisions	: Vehicle for tank carriage	:
ADR Transport category	:	3
ADR Tunnel restriction code	:	E
ADR Special provisions loading, unloading and handling	:	CV9
Special provisions - Packages	:	
Special provisions - Bulk	:	
Special provisions - Operation	:	
ADR Hazard identification number (Kemler No.)	:	
IMDG		
Special provisions	:	225
Limited quantity (LQ)	:	120 ml
Excepted quantities	:	E0
Packing instructions	:	P003
Special packing provisions	:	PP91
IBC instruction(s)	:	
IBC provisions	:	
Instructions for portable tanks and bulk containers	:	
Special provisions for portable tanks and bulk containers	:	
EmS codes	:	F-C, S-V
Stowage and handling	:	Category A
Segregation	:	
Properties and observations	:	Fire extinguishers, containing compressed or liquefied gases under pressure above 175 kPa for expelling fire-extinguishing contents.
IATA		
PCA - Excepted quantities	:	E0
PCA - Limited Quantity - Packing Instructions	:	Forbidden

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PCA - Limited Quantity - Maximum Net Quantity per Package	:	Forbidden
PCA - Packing Instructions	:	213
PCA - Maximum Net Quantity per Package	:	75kg
CAO - Packing Instructions	:	213
CAO - Maximum Net Quantity per Package	:	150kg
Special Provisions	:	A19
ERG Code	:	2L

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Substances REACH candidates	None
Substances Annex XIV	None
Substances Annex XVII	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (Index No.: 603-096-00-8 - EC No.: 203-961-6 - CAS No.: 112-34-5)
VOC content	No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1,2	16/01/2024	SSa	Added reference E45A1FF

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Abbreviations and acronyms	- Aquatic Chronic 3: Dangers pour le milieu aquatique- toxicité à long termepour le milieu aquatique – Catégorie 3 - CAS: Chemical Abstracts Service (division of the American ChemicalSociety) - DNEL worker - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) - EINECS: European Inventory of Existing Commercial ChemicalSubstances - Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2 - GHS: Globally Harmonised System of Classification and Labelling ofChemicals - IATA: International Air Transport Association - IMDG: International Maritime Code for Dangerous Goods - Skin Irrit. 2: Corrosion cutanée/irritation cutanée – Catégorie 2 - Skin Sens. 1: Sensibilisation cutanée – Catégorie 1 - SVHC substance. - Land transport (ADR/RID) - DNEL-/PNEC-values
Data sources:	Supplier Http://echa.europa.eu/

Texts of the regulatory sentences

Eye Irrit. 2	Eye irritation - Category 2
H319	Causes serious eye irritation
Not Classified	Not classified

Training advice - Further information: see technical data sheet.

In conformity with Regulation (EC) No 2020/878
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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