

## Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

#### **Product identifier**

**Product code** TS-49700

Product name MBTFA, 10 x 1 ml ampules

Not Applicable **Chemical Name** 

**REACH registration number** No registration number is given yet for this substance / substances in this mixture

since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet

expired.

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

Relevant identified uses For research use only

SU22 - Professional uses: Public domain (administration, education, **Use Description Code** 

entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 -

Laboratory chemicals, SU24 - Scientific research and development

Not for consumer use. Uses advised against

#### Details of the supplier of the safety data sheet

#### Manufacturer / Supplier

LIFE TECHNOLOGIES EUROPE BV

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1.815.968.0747 or 1.800.874.3723

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC** Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):** 

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish)

+(44)-870-8200418 (Greeting Language: English) CHEMTREC UK (London)

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#### SECTION 2: Hazards identification

#### Classification of the substance or mixture

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

#### **Physical hazards**

Flammable liquids Category 3	
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## **Health hazards**

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

#### **Environmental hazards**

Not classified

#### **Additional information**

No information available

## Label elements

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

**Hazard pictograms** 



#### Signal Word

Danger

#### **Hazard Statements**

H226 - Flammable liquid and vapour

H314 - Causes severe skin burns and eye damage

## **Precautionary Statements**

#### **Prevention**

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P264 - Wash hands thoroughly after handling

P233 - Keep container tightly closed

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

#### Response

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Revision date 29-Jun-2020 Product code TS-49700 P310 - Immediately call a POISON CENTER or doctor/physician

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

#### Storage

P403 + P235 - Store in a well-ventilated place. Keep cool

#### Disposal

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

#### Other hazards

Not Applicable

## SECTION 3: Composition/information on ingredients

Chemical Name	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2,2-Trifluoro-N-methyl-N-(trifluoroace tyl)acetamide	685-27-8	-	98-100	-	Flam. Liq. 3 (H226) Skin Corr. 1B (H314)

#### SECTION 4: First aid measures

#### Description of first aid measures

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and

wash contaminated clothing and gloves, including the inside, before re-use.

Immediate medical attention is required.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting

without medical advice. Get medical attention if symptoms occur.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist,

call a doctor.

Notes to Physician Treat symptomatically.

## Most important symptoms and effects, both acute and delayed

H226 - Flammable liquid and vapour H314 - Causes severe skin burns and eye damage

#### Indication of any immediate medical attention and special treatment needed

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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## SECTION 5: Firefighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Do not use water jet.

## Special hazards arising from the substance or mixture

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

## SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Avoid contact with skin, eyes or clothing
Use personal protection equipment
See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

## Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

#### Precautions for safe handling

Always wear recommended Personal Protective Equipment. See section 8 for more information. Do not get in eyes, on skin, or on clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use adequate ventilation and/or wear appropriate respirator.

#### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Store in accordance with local regulations.

## **Storage Conditions**

Do not store above the following temperature: -20°C (-4°F).

#### Specific end use(s)

For research use only.

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## SECTION 8: Exposure controls/personal protection

## Control parameters

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
2,2,2-Trifluoro-N-methyl-N-(trifluoro	None	None	None
acetyl)acetamide			
685-27-8			

Chemical Name	Austria	Belgium (TWA)	Czech Republic
2,2,2-Trifluoro-N-methyl-N-(trifluoro	None	None	None
acetyl)acetamide			
685-27-8			

Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
2,2,2-Trifluoro-N-methyl-N-(trifluoro	None	None	None
acetyl)acetamide			
685-27-8			

Chemical Name	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
2,2,2-Trifluoro-N-methyl-N-(trifluoro	None	None	None
acetyl)acetamide			
685-27-8			

Chemical Name	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
2,2,2-Trifluoro-N-methyl-N-(trifluoro	None	None	None
acetyl)acetamide			
685-27-8			

Chemical Name	Poland	Portugal	Spain OEL (TWA)
2,2,2-Trifluoro-N-methyl-N-(trifluoro	None	None	None
acetyl)acetamide			
685-27-8			

Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
2,2,2-Trifluoro-N-methyl-N-(trifluoro	None	None	None
acetyl)acetamide			
685-27-8			

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

#### **Exposure controls**

## Personal protection equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## **Environmental exposure controls**

No special environmental precautions required.

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## SECTION 9: Physical and chemical properties

## Information on basic physical and chemical properties

No data

**Appearance** liquid Colour Colourless No data Odour **Odour Threshold** No data **Molecular Weight** No data No data Hq Melting point / melting range °C No data

**Boiling point / boiling range** 

Flash point **Autoignition Temperature Decomposition temperature** 

**Evaporation rate** Flammability (solid, gas) Upper explosion limit Lower explosion limit **Vapour Pressure** Vapour density Relative density Specific gravity Solubility Partition coefficient:

n-octanol/water

**Viscosity Explosive properties Oxidising properties** 

Other information No data.

°F No data °C 120 to 122 °F 248 to 251.6 °C 42.22 °F 108 °C No data °F No data

°C No data °F No data

SECTION 10: Stability and reactivity

None known. Reactivity

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials Oxidising agent.

Hazardous decomposition

products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). halogenated

compounds.

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## SECTION 11: Toxicological information

## Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,2,2-Trifluoro-N-methyl-N-(trifluor	No data available	No data available	No data available
oacetyl)acetamide			

## **Principal Routes of Exposure**

Skin corrosion/irritation Causes severe burns

Serious eye damage/irritation Causes serious eye damage

Respiratory or skin

sensitisation

Data are conclusive but insufficient for classification

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – repeated exposure

Carcinogenicity Data are conclusive but insufficient for classification

**Germ cell mutagenicity** Data are conclusive but insufficient for classification

**Reproductive Toxicity** Data are conclusive but insufficient for classification

Aspiration Hazard Data are conclusive but insufficient for classification

## SECTION 12: Ecological information

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
2,2,2-Trifluoro-N-methyl-N-(trif luoroacetyl)acetamide	No data available	No data available	No data available	No data available	No data available

Mobility in soil No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

No information available.

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## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## **SECTION 14: Transport information**

#### IATA / ADR / DOT-US / IMDG

This product is subject to the de minimis exceptions for dangerous goods / hazardous materials in accordance with the following regulations: IATA 2.6.10, ADR 3.5.1.4, and U.S. DOT 49 CFR 173.4b.

UN number 2924

**UN proper shipping name** Flammable liquid, corrosive, n.o.s.

(2,2,2-Trifluoro-N-methyl-N-(trifluoroacetyl)acetamide)

Transport hazard class(es) 3(8)
Packing group

**Environmental hazards** 

Not Hazardous

Special precautions for user

Not Applicable

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

Not Applicable.

## SECTION 15: Regulatory information

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

**Substances of Very High Concern** 

None.

Substance subject to authorisation per REACH Annex XIV

None

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.

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Restricted substances under Annex V of Regulation (EC) No 689/2008 None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC None.

German Water hazard classes (Wassergefährdungsklassen)

Not classified.

## Other International Inventories

	Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Ī	2,2,2-Trifluoro-N-methyl-N-(trifluoroacetyl)acetamide	Listed	-	=	-

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
2,2,2-Trifluoro-N-methyl-N-(trifluoroacetyl)acetamide	=	=	-	-

## **Chemical safety assessment**

No Chemical safety assessment has been carried out.

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#### SECTION 16: Other information

Reason for revision Update according to Commission Regulation (EU) No 830/2015

Revision number 2

Revision date 29-Jun-2020

#### References

ECHA: http://echa.europa.eu/TOXNET: http://toxnet.nlm.nih.gov/

eChemPortal: http://www.echemportal.org/

• LOLI database: https://www.chemadvisor.com/loli-database

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flammable liquids

Category 3

Calculation method

Skin corrosion/irritation

Category 1

Calculation method

Category 1

Calculation method

Calculation method

## Abbreviations and acronyms

TWA - Time-Weighted Average

**OELs** - Occupational Exposure Limits

STEL - Short Term Exposure Limit

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

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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

**CEPA** - Canadian Environmental Protection Act

**EPA** - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labour

IATA - International Air Transport Association

**DOT** - Department of Transportation

**IMDG** - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

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