GK2000 v2.0



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According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

1.

Product code	: GK2000
Product name	: Trifluoroacetic acid, Ultrapure for synthesis
CAS number	: 76-05-1
EINECS	: 200-929-3
Physical form	: liquid, substance
REACH	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

PC21: Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

: Glentham Life Sciences Ltd	Telephone	:	+44 (0) 1225 667 798
Unit 5 Leafield Way	Fax	:	+44 (0) 2033 978 909
Corsham SN13 9SW	Email	:	info@glentham.com
United Kingdom	Web	:	www.glentham.com
	Unit 5 Leafield Way Corsham SN13 9SW	Unit 5 Leafield Way Fax Corsham SN13 9SW Email	Unit 5 Leafield Way Fax : Corsham SN13 9SW Email :

1.4 Emergency telephone number

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H314	Skin Corr. 1A
H332	Acute Tox. 4
H412	Aquatic Chronic 3

2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

Pictograms



Signal words	Danger
Hazard statements	
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P261	Avoid breathing vapors.
P264	Wash face, hands and any exposed skin thoroughly after handling.
Other hazards	
РВТ	

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This substance is not identified as a PBT substance.

Substances					
Name		Identifier	%	Classification	
Trifluoroacetic acid	, Ultrapure for synthesis	CAS: 76-05-1 EC: 200-929-3 REACH: Not applicable	99.90%	H314, Skin Corr. 1A H332, Acute Tox. 4 H412, Aquatic Chronic 3	
First aid measures					
Description of first a	id measures				
Skin contact	still on skin. Remove all	contaminated clothes a	and footwear in	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng. Wash immediately with plenty of	
Eye contact	Consult a doctor. Transf 15 minutes.	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.			
Ingestion	Consult a doctor. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If conscious give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.				
Inhalation	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.				
Most important sym	ptoms and effects, both acu	ite and delayed			
Skin contact	0,	•		nent is not immediate. There may be I irritation at the site of contact.	
Eye contact	Corneal burns may occube irritation and redness			e eyes may water profusely. There ma	
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain ma occur. There may be bleeding from the mouth or nose. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.				
Inhalation	, ,	h a feeling of tightness	in the chest. T	nach pain may occur. There may be here may be shortness of breath with a	
Delayed / immediate effects	Immediate effects can b There may be bleeding t		•	Nausea and stomach pain may occur.	

Immediate / special treatment

Do not induce vomiting. Eye bathing equipment should be available on the premises.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. In combustion emits toxic fumes.

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5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Notify the police and fire brigade immediately. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

Refer to section 8 of SDS.

7. Handling and storage

7.1 Precautions for safe handling

Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Do not handle in a confined space. Ensure there is sufficient ventilation of the area.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Avoid contact with water or humidity. Keep container tightly closed. Store in cool, well ventilated area.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

No workplace exposure limit control parameters set

8.2 Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area.
Respiratory protection	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Protective gloves.
Eye protection	Tightly fitting safety goggles. Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
Colour
Odour
Melting point/Freezing point
Boiling point/initial boiling point/boiling range
Flammability
Lower/Upper explosion limit

Liquid Colourless No data available. -15 °C 73 °C No data available. No data available.

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Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	1 000 - 1 520 g/L @ 20 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	1.489
Relative vapour pressure	No data available.
Particle characteristics	No data available.

9.2 Other information

No data available.

10. Stability and reactivity

^{10.1} Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

^{10.3} Possibility of hazardous reactions

Hazardous reactions

Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

^{10.4} Conditions to avoid

Heat.

^{10.5} Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

No data available.

b) Skin corrosion/irritation

Skin corrosion/irritation (Category 1A)
c) Serious eye damage/irritation

No data available.

- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicity No data available.
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.
- Aspiration hazardNo data available.

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11.2 Symptoms / routes of exposure

Skin contact			ccur if treatment is not imm may be mild irritation at the	
Eye contact	Corneal burns may occur. be irritation and redness.		lamage. The eyes may wa edness.	ter profusely. There may
Ingestion	occur. There may be blee	ding from the mouth or n	ar around the lips. Nausea ose. There may be irritation roat. There may be vomitir	n of the throat. There
Inhalation		a feeling of tightness in t	ea and stomach pain may he chest. There may be sh iiting.	-
Delayed / immediate effects	Immediate effects can be There may be bleeding fro		n exposure. Nausea and st	omach pain may occur.
Other information	No data available.			
Ecological information	on			
Toxicity				
No data available.				
Persistence and deg	radability			
Not biodegradable.				
Bioaccumulative pote	ential			
Bioaccumulation pote	ential.			
Mobility in soil				
Readily absorbed into	o soil.			
Results of PBT and v	PvB assessment			
This substance is not	identified as a PBT substand	ce.		
Endocrine disrupting	properties			
This substance is not	identified as having endocrin	ne disrupting properties		
Other adverse effects	6			
No data available.				
Disposal consideration	ons			
Waste treatment met	hods			
Disposal operations				
	container and arrange for co	illection by specialised di	sposal company.	
NB The user's attention is	s drawn to the possible existe	ence of regional or nation	al regulations regarding di	sposal.
Transport information	n			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN2699	UN2699	UN2699	UN2699	UN2699
14.2. UN proper shipping	j name			
TRIFLUOROACETI ACID	C TRIFLUOROACETIC ACID	Trifluoroacetic acid	TRIFLUOROACETIC ACID	TRIFLUOROACETIC ACID

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Transport document descript	tion			
UN2699 TRIFLUOROACETIC ACID, 8, I	UN2699 TRIFLUOROACETIC ACID, 8, I	UN2699 Trifluoroacetic acid, 8, I	UN2699 TRIFLUOROACETIC ACID, 8, I	UN2699 TRIFLUOROACETIC ACID, 8, I
14.3. Transport hazard class((es)			
8	8	8	8	8
		R R R R R R R R R R R R R R R R R R R	8	8
14.4. Packing group				
I	I	I	I	I
14.5. Environmental hazards				
No	No	No	No	No

15. Regulatory information

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

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:	No data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances:	No data available.
Regulation (EC) 1005/2009 on substances that deplete the ozone layer:	No data available.
Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:	No data available.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. Other information

H-Statement Full Texts	
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
H412	Harmful to aquatic life with long lasting effects
Abbreviations Full Texts	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP	As low as is reasonably practicable
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulations
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number
EC50	Effective Concentration 50%
EILINCS	European List of Notified Chemical Substances
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System
HSE	Health & Safety Executive UK
IATA	International Air Transport Association
IM	Intramuscular
IMDG	The International Maritime Dangerous Goods Code
IP	Intraperitoneal
IV	Intravascular

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LD50	Lethal Dose 50%
LOEC	Lowest Observable Effective Concentration
LTEL	Long Term Exposure Limit
NOEC	No Observable Effective Concentration
OECD	Organisation for Economic Cooperations and Development
PBT	Persistent Bioaccumulative Toxic
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC	Subcutaneous
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.

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