# Page: 1 of 5

Infosafe No™

Issue Date : May 2020

RE-ISSUED by CHEMSUPP

Product Name : TRIFLUOROACETIC ACID

1CHO5

	Classified as hazardous		
1. Identification			
GHS Product	TRIFLUOROACETIC ACID		
Identifier			
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax	Tel: (08) 8440-2000		
Number			
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)		
Recommended use	Strong non-oxidising acid, solvent, catalyst and laboratory reagent.		
of the chemical and			
restrictions on use			
Other Names	Name	Product Code	
Other Information	Trifluoroacetic acid, peptide synthesis grade	TS181	
Other information	Chem-Supply Pty Ltd does not warrant that this product is s	uitable for any use or purpose. The user	
	must ascertain the suitability of the product before use or a	oplication intended purpose. Preliminary	
	testing of the product before use or application is recommended		
	upon Chem-Supply Pty Ltd with respect to any skill or judge this product of any purpose is disclaimed. Except to the extern		
	any statute as to the merchantable quality of this product or		
	This product is not sold by description. Where the provision		
	Act apply, the liability of Chem-Supply Pty Ltd is limited to the	ne replacement of supply of equivalent goods	
	or payment of the cost of replacing the goods or acquiring e	equivalent goods.	
2. Hazard Identif			
GHS classification	Eye Damage/Irritation: Category 1		
of the	Acute Toxicity - Inhalation: Category 4 Skin Corrosion/Irritation: Category 1A		
substance/mixture	Hazardous to the Aquatic Environment - Long-Term Hazard	: Category 3	
	Corrosive to Metals: Category 1		
Signal Word (s)	DANGER		
Hazard Statement	H290 May be corrosive to metals.		
(s)	H314 Causes severe skin burns and eye damage.		
	H318 Causes serious eye damage. H332 Harmful if inhaled.		
	H412 Harmful to aquatic life with long lasting effects.		
Pictogram (s)	Corrosion, Exclamation mark, Environment		
	AND AV		
Due e continue como			
Precautionary statement –	P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray.		
Prevention	P264 Wash skin thoroughly after handling.		
	P271 Use only outdoors or in a well-ventilated area.		
	P273 Avoid release to the environment.		
Dressutioner	P280 Wear protective gloves/protective clothing/eye protect		
Precautionary statement –	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT P303+P361+P353 IF ON SKIN (or hair): Remove/Take off in		
statement – Response	skin with water/shower.	missialery an contaminated clothing. Allise	
noshonse	P363 Wash contaminated clothing before reuse.		
	P304+P340 IF INHALED: Remove victim to fresh air and ke	ep at rest in a position comfortable for	
	breathing.		
	P310 Immediately call a POISON CENTER or doctor/physic		
	P305+P351+P338 IF IN EYES: Rinse cautiously with water	Tor several minutes. Demove contact lenses	

23	Safe	ety Data	Sheet	P	infosafe cs: 1.7.2
chem-supply		<b>D</b> · M			-
Infosafe No™		sue Date : May	2020	RE-ISSUED b	V CHEMSUPP
Product Name :	TRIFLUOROACETIC A				
		Classified as ha	zardous		
Precautionary statement – Storage Precautionary statement – Disposal	if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P390 Absorb spillage to prevent material damage. P391 Collect spillage. P405 Store locked up. P406 Store in corrosive resistant/ container with a resistant inner liner. P501 Dispose of contents/container in accordance with local, state and federal government requirements.				
	nformation on ingredie	ents			
Chemical Characterization	Liquid				
Ingredients	<u>Name</u>	CAS	<b>Proportion</b>	Hazard Symbol	Risk Phrase
	Trifluoroacetic acid	76-05-1	98-100 %	Xn, C	R20, R35
4. First-aid measure Inhalation		aminated area to	frach air immodiata	ly Apply artificial ros	airation if not
Ingestion	If inhaled, remove from cont breathing. If breathing is diff Rinse mouth thoroughly with DO NOT INDUCE VOMITIN	icult, give oxygen n water immediate	Immediately medic ly, repeat until all tr	al attention is require	ed.
Skin	Remove contaminated cloth			fected areas with cop	pious quantities of
Eye contact	water and soap. Seek medi Immediately irrigate with cop Seek immediate medical as	pious quantity of v sistance.		minutes. Eyelids to b	e held open.
First Aid Facilities	Maintain eyewash fountain a				
Advice to Doctor Other Information	Treat symptomatically based on judgement of doctor and individual reactions of the patient.				
	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.				
5. Fire-fighting m					
Suitable extinguishing media Hazards from Combustion Products	Use alcohol-resistant foam, Carbon monoxide (CO) Carl			dioxide.	
Special Protective Equipment for fire fighters	Fire fighters to wear self-cor combustion.	ntained breathing	apparatus if risk of	exposure to vapour o	r products of
Specific hazards arising from the chemical	Carbon oxides, Hydrogen fluoride.				
Hazchem Code	2X				
6. Accidental rele					
Personal Precautions	Evacuate the area of all non Ensure adequate ventilation				
	Wear protective clothing spe	-			
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.				
Clean-up Methods - Large Spillages Environmental	Seek expert advice on hand Prevent further leakage or s	pillage if safe to d		e to the environment.	
Precautions	Do NOT let product enter dr	ains.			
7. Handling and s Precautions for Safe Handling	storage Use local exhaust extraction and emergency shower mus				

$\square$	$\mathbb{Z}$
C	$\Box$
chem-	supply

Page: 3 of 5

chem-supply			
Infosafe No™	1CHO5 Issu	e Date :May 2020	RE-ISSUED by CHEMSUPP
Product Name :	<b>TRIFLUOROACETIC ACI</b>	D	
	C	lassified as hazardous	
Conditions for safe storage, including any incompatabilities	procedures should be implement promptly with soap and water Avoid contact with skin and ey	ented. Take off contaminated if skin becomes contaminate /es. Avoid inhalation of vapo re in well ventilated area. Ke	
Storage Regulations	Refer Australian Standard AS	3780 - 1994 'The storage ar	nd handling of corrosive substances'.
8. Exposure cont	rols/personal protectior	า	
Other Exposure			duct by Safe Work Australia, however, the
Information	TWA exposure standard for du contamination should be kept		cified is 10 mg/m3. All atmospheric
Appropriate			nay be achieved by process modification, use
engineering controls	of local exhaust ventilation, ca	pturing substances at the so	purce, or other methods.
Respiratory Protection	or P2 particulate filter respirate actual airborne concentrations individual circumstances. Expe	or. Final choice of appropriats and the type of breathing p ert advice may be required to and Standards AS/NZS 1715	ng dusts by wearing an AS 1716 approved P1 te breathing protection is dependant upon rotection required will vary according to o make this decision. Reference should be , Selection, Use and maintenance of
Eye Protection		ds, goggles or full faceshield	should be worn as described in Australian
Hand Protection	Wear gloves of impervious ma Selection, use and maintenan circumstances. This can includ appropriate risk assessments. gloves outer surface. Dispose	aterial conforming to AS/NZS ce. Final choice of appropri- de methods of handling, and . Avoid skin contact when re of gloves as hazardous was	S 2161: Occupational protective gloves - ate glove type will vary according to individual l engineering controls as determined by moving gloves from hands, do not touch the ste.
Personal Protective Equipment	when all other reasonably prac	cticable control measures do al protective equipment can l	upon to control risk and should only be used o not eliminate or sufficiently minimise risk. be obtained from Australian, Australian/New
Footwear			tion should comply with AS 2210,
Body Protection	Occupational protective footwo Clean impervious clothing sho AS 3765 Clothing for Protection	ould be worn. Clothing for pro	ptection against chemicals should comply with
Hygiene Measures		al hygiene is maintained whe	en using this product. Always wash hands
9. Physical and c	hemical properties		
Form	Liquid		
Appearance	Colourless, hygroscopic liquid	l.	
Odour	Pungent odour.		
Melting Point	-15.4 °C		
<b>Boiling Point</b>	72.4 °C		
Solubility in Water	Soluble.		
Specific Gravity	1.489 g/cm3 @ 20°C.		
pH	1.0 g/l @ 20°C		
Vapour Pressure	130.0 hPa @20°C 142.7 hPa @25°C		
Partition Coefficient	log pow: -2 10		

Flash Point> 100°C closed cup. (Tested to Annex V of Directive 67/548/EEC).Molecular Weight114.02

## 10. Stability and reactivity

Partition Coefficient: log pow: -2.10

**Chemical Stability** Stable under normal use conditons.

n-octanol/water



# Page: 4 of 5

			Page: 4 of
chem-supply			
nfosafe No™	1CHO5	Issue Date : May 2020	RE-ISSUED by CHEMSUP
Product Name : 1	<b>FRIFLUOROAC</b>	CETIC ACID	
		Classified as hazardous	
Incompatible Materials Hazardous Decomposition Products	Metals, Oxidizing agents, Strong bases, Epoxides, Alcohols, Steel (all types and surface treatements), Aluminium. Reacts violently with: Alkali metals. Exothermic in contact with water. Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen fluoride.		
11. Toxicological	Information		
Acute Toxicity - Oral	200-400 mg/kg (r	at)	
Acute Toxicity - Inhalation	10 mg/L/2h (rat)		
Ingestion	Causes severe b	urns if swallowed.	
Inhalation Skin		ation. Inflammation and edema of the lary , wheezing, shortness of breath, laryngitis urns.	
Eye	Causes sereve b	urns.	
Respiratory sensitisation	Not classified bas	sed on available information.	
Skin Sensitisation	Not classified bas	sed on available information.	
Germ cell	Not classified bas	sed on available information.	
nutagenicity Carcinogenicity	Not identified as	probable, possible or confirmed human ca	arcinogen by IARC.
Reproductive Toxicity		sed on available information.	
STOT-single	Not classified bas	sed on available information.	
exposure STOT-repeated exposure	Not classified bas	sed on available information.	
Serious eye damage/irritation Skin	Eye Damage/Irrit	ation: Category 1	
corrosion/irritation Other Information		ritation: Category 1A nely destructive to tissue of the mucous m	embranes and upper respiratory tract, eyes
12. Ecological inf	ormation		
Ecological Information	Harmful due to pl	H shift.	
Persistence and degradability Mobility Bioaccumulative	Will likely be mob	leline 301D)	hich will evaporate easily from all surfaces Disperses rapidly in air.
Potential Other Adverse		c life with long lasting effects.	
Effects Acute Toxicity - Fish		o (zebra fish) - > 1,000 mg/l, 96 h.	
Acute Toxicity - Daphnia		Guideline 203) magna (water flea) - 55.00 mg/l, 24 h.	
Acute Toxicity - Algae	Desmodesmus si	ubspicatus (Scenedesmus subspicatus) -:	> 100mg/l, 72h.
13. Disposal cons	siderations		
Disposal Considerations	Whatever cannot	be saved for recovery or recycling should government regulations.	be disposed of according to relevant local,

# 14. Transport information

$\square$	
L	J
chem-	supply

## Page: 5 of 5

Issue Date : May 2020 Infosafe No™ 1CHO5

**RE-ISSUED by CHEMSUPP** 

### Product Name : TRIFLUOROACETIC ACID . . .

	Classified as hazardous
Transport Information	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
U.N. Number	2699
UN proper shipping	TRIFLUOROACETIC ACID
name Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	3.8.8RT5
Packing Group	I
EPG Number	8A1
IERG Number	37
UN Number (Road Transport)	2699
15 Regulatory in	formation

#### 15. Regulatory information

Regulatory	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation
Information	2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	S6

**Hazard Category** Harmful,Corrosive

## 16. Other Information

Literature	Commonwealth Department of Health and Aged Care, 'Standard for the Uniform Scheduling of Drugs
References	and Poisons No. 18', Commonwealth of Australia, Canberra 2002.
	Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley & Sons,
	Inc., NY, 1997.
	National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra,
	1998.
	South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances',
	1995.
	Standards Australia, 'SAA/SNZ HB76:1997 Dangerous Goods - Initial Emergency Response Guide',
	Standards Australia/Standards New Zealand, 1997.
	Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]',
	AusInfo, Canberra 1999.
	Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AusInfo,
	Canberra 1999.
	Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances
	[NOHSC:2012(1994)]', AGPS, Canberra 1994.
	Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational
0	Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.
Contact	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:
Person/Point	All information provided in this data sheet or by our technical representatives is compiled from the best
	knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make
	no warranty either expressed or implied, with respect to the completeness or accuracy to the information
	contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results
	that may be obtained by customers from using the data and disclaims all liability for reliance on
	information provided in this data sheet or by our technical representatives.
Empirical Formula &	
Structural Formula	
Suucial Fornia	End Of MSDS

© Copyright ACOHS Pty Ltd Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.