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Infosafe No™

Issue Date : March 2018

RE-ISSUED by CHEMSUPP

Product Name : TRIETHANOLAMINE

1CH79

Classified	as	hazar	dous
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1. Identification			
GHS Product	TRIETHANOLAMINE		
Identifier			
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
Recommended use	Intermediate in the manufacture of surface active agents us	ed as detergents and emulsifying, wetting,	
of the chemical and	foaming and dispersing agents in cleaners, dry cleaning, po	lishes, cosmetics, pharmaceuticals,	
restrictions on use	toiletries, drilling and cutting oils, metal-working compounds and agricultural sprays, additives in lubricants for textile industry, electroplating and textile processing, corrosion inhibitor, chelating agent, humectant and plasticizer, rubber accelerator, cement additive, water repellents, increasing penetration of organic liquids into wood and paper, softening agent, solvent, manufacture of synthetic resins, piperazine, polyurethane foam, polymers industry, used as an initiator for poly triol production, intermediate in various products including paints, inks, lacquers, polishes, and varnishes, petroleum demulsifiers, gas purification (used in the recovery of hydrogen sulfide from sour natural gases and sour		
Other Names	Name	Product Code	
	TRIETHANOLAMINE 85% LR	TL019	
	TEA Triethylolamine Tri(2-hydroxyethyl)amine 2,2',2'-Trihydroxytriethylamine Tris(2-hydroxyethyl)amine TRIETHANOLAMINE 85% TG Nitrilo-2,2',2'-triethanol	TT019	
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000		
	Chem-Supply Pty Ltd does not warrant that this product is so must ascertain the suitability of the product before use or ap testing of the product before use or application is recommen upon Chem-Supply Pty Ltd with respect to any skill or judge this product of any purpose is disclaimed. Except to the exter any statute as to the merchantable quality of this product or This product is not sold by description. Where the provisions Act apply, the liability of Chem-Supply Pty Ltd is limited to th or payment of the cost of replacing the goods or acquiring e	uitable for any use or purpose. The user plication intended purpose. Preliminary ded. Any reliance or purported reliance ment or advice in relation to the suitability of int prohibited at law, any condition implied by fitness for any purpose is hereby excluded. s of Part V, Division 2 of the Trade Practices e replacement of supply of equivalent goods quivalent goods.	
2. Hazard Identifi			
GHS classification of the substance/mixture Signal Word (s)	Acute Toxicity - Dermal: Category 2 Eye Damage/Irritation: Category 2A Specific target organ toxicity - Single Exposure Category 3 ( WARNING	respiratory tract irritation)	
Hazard Statement (s)	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.		
Pictogram (s)	Exclamation mark		
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Precautionary statement – Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.		

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



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Product Name :	TRIETHANOLAMIN	E			
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Precautionary statement – Response	<ul> <li>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P332+P313 If skin irritation occurs: Get medical advice/attention.</li> <li>P362 Take off contaminated clothing and wash before reuse.</li> <li>P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P322 - P312 Gall a poison contact lenses.</li> </ul>				
Precautionary statement – Storage Precautionary statement – Disposal	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.				
3. Composition/i	nformation on ingr	edients			
Chemical Characterization Ingredients	Liquid <u>Name</u> Triethanolamine	<u>CAS</u> 102-71-6	Proportion	Hazard Symbol	<u>Risk Phrase</u>
	Diethanolamine	111-42-2	15 %		
4. First-aid meas	sures				
Inhalation	Remove from exposure	e, rest and keep warm.	If breathing has ste	opped, apply artificial	respiration. If
Ingestion	Rinse mouth thoroughly vomiting occurs give fu	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If vomiting occurs give further water to achieve effective dilution. Seek medical attention in severe cases,			
Skin	Wash affected areas w wash before re-use. If	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.			
Eye contact	Immediately irrigate wit rapid recovery does no Maintain ovowach foun	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention			
Advice to Doctor	Treat symptomatically h	based on judgement of	doctor and individu	al reactions of the pa	itient
Other Information	For advice, contact a P 766) or a doctor.	oisons Information Cen	tre (Phone eg Aus	tralia 13 1126; New Z	ealand 0800 764
5. Fire-fighting m	neasures				
Hazards from Combustion Products	Irritating, corrosive and nitrogen (NO, NO2, etc	highly toxic gases or fu ) and hydrogen cyanide	mes, including oxi s.	des of carbon (CO, C	O2), oxides of
Specific Methods	Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.				
Specific hazards arising from the	May burn but do not igr and/or corrosive fumes	nite readily. Runoff may . Containers may explor	pollute waterways de when heated.	. Fire may produce irr	itating, poisonous
Decomposition Temp.	> 325 °C; 335 °C.				
Precautions in connection with Fire	Wear SCBA and structo	ural firefighter's uniform.			
6. Accidental release measures					
Personal Protection	Wear protective clothin	g specified for normal o	perations (see Se	ction 8)	
Clean-up Methods - Small Spillages	Absorb or contain liquid place in a labelled, sea	d with sand, earth or spi lable container for subs	Il control material. equent safe dispo	Shovel up using non sal. Put leaking conta	sparking tools and iners in a labelled

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Product Name: 1	RIETHANOL	AMINE	
		Classified as hazardous	
Clean-up Methods - Large Spillages	Prevent from spreading by making a barrier with sand, earth or other containment material. Pump off product.		
Environmental Precautions	Do not discharge	into drains, surface water or ground water.	Do not discharge to subsoil/soil.
7. Handling and s	torage		
Precautions for Safe Handling	Avoid ingestion a clothing. Avoid p accumulation and Ensure good ver ventilation, wear the container or t with this material drinking, smoking incompatibles su	Ind inhalation of gas/fumes/vapour/spray mi rolonged or repeated exposure. DO NOT sto d generation of mists, vapours or aerosols in itilation at the workplace. Use with adequate suitable respiratory equipment. If ingested, the label. Wear suitable protective clothing. maintain high standards of personal hygien g or using toilet facilities. Do not eat, drink, or ich as oxidizing agents, reducing agents, or	Ists. Avoid contact with eyes, skin, and ore or use in confined spaces. Minimise n the atmosphere. Keep container closed. e ventilation. In case of insufficient seek medical advice immediately and show It is essential that all who come into contact ne ie. washing hands prior to eating, or smoke during work. Keep away from ganic materials, metals, acids.
Conditions for safe storage, including any incompatabilities	Store in tightly cl incompatible sub and light. Light so damage. Store a	osed, light-resistant containers, in a cool, dr istances, foodstuffs, and clothing. Very hygr ensitive. Protect from light and air, direct sur way from oxidizing agents and acids. Isolate	y, well-ventilated area away from oscopic - turns brown on exposure to air nlight and moisture and against physical e from any source of heat or ignition. Inspect
Corrosiveness	regularly for deficiencies such as damage or leaks. Avoid freezing the product. Corrosive in presence of steel and galvanized iron, of aluminium, of zinc, of copper, brass and other copper alloys.		
Storage Regulations	Classified as C2 (Combustible Liquid) for the purpose of storage and handling in accordance with AS1940. Refer Australian Standard AS 1940-2004 'The storage and handling of flammable and combustible liquids'.		
Storage Temperatures Recommended Materials	May separate an 23°C recommend Carbon steel (Iro (LDPE).	d freeze below 16 °C. Avoid freezing the proded). In), Stainless steel, high density polyethylen	oduct. Store at room temperature (16 to e (HDPE), Glass, Low density polyethylene
Unsuitable Materials	Galvanised steel	, aluminium, copper, copper alloys, light me	tals, nonferrous metals and zinc.

Occupational exposure limit values	<u>Name</u>	S	TEL	т	WA	
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	<b>Footnote</b>
	Triethanolamine			5		Triethanol amine
	Diethanolamine			13	3	
Other Exposure Information	A time weighted average (TWA) ha mg/m <sup>3</sup> and for Diethanolamine (Sa TWA is the average airborne conc hour working day for a 5 day worki	as been estat ife Work Aust entration of a ng week.	olished for T ralia) of 13 i particular s	riethanolami mg/m³ (3 ppi ubstance wh	ne (Safe W n). The exp en calculat	York Australia) of 5 posure value at the red over a normal 8
Appropriate	Provide sufficient ventilation to ens	sure that the v	vorking envi	ironment is b	elow the T	WA (time weighted
engineering control	s average). Where vapours or mists is inadequate, a flame proof exhau handling of flammable and combus information concerning ventilation	s are generate ist ventilation stible liquids a requirements	ed, particula system is re and AS 2430	rly in enclos equired. Refe 0-Explosive (	ed areas, a er to AS 19 gas atmosp	nd natural ventilation 40-The storage and heres for further
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.					
Eye Protection	The use of a face shield, chemical Must comply with Australian Stand	goggles or s ards AS 1337	afety glasse ' and be sel	es with side s ected and us	hield prote sed in acco	ction as appropriate. rdance with AS 1336
Hand Protection	Hand protection should comply wit maintenance. Recommendation: Neoprene. Supported Polyvinyl C	h AS 2161, C Excellent: S hloride (PVC)	ccupational upported Ni gloves. Go	l protective g itrile. Suppo ood: Suppor	loves - Sel rted Neopr ted Polyvin	ection, use and ene. Unsupported yl Alcohol (PVA)

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Product Name :	IRIEIHANOLAMINE
	Classified as hazardous
Personal Protective Equipment Footwear Body Protection	gloves. Unsupported Natural Rubber Latex. Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken. Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use. Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn,
Hygiene Measures	preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
9 Physical and c	hemical properties
Form	Liquid
Appearance Odour	Colourless to pale yellow, hygroscopic crystals or viscous liquid. Turns brown on exposure to air and light.
Decomposition	> 325 °C 335 °C
Temperature Melting Point	15.8 °C; 17.9 - 21 °C. Super cools easily.
Boiling Point	335.4 °C (760 mm Hg); 360 °C.
Solubility in Water	Miscible (soluble) in all proportions.
Solubility in Organic Solvents Specific Gravity	Miscible in methanol, acetone; soluble in benzene, chloroform; slightly soluble in petroleum ether; very slightly soluble in diethyl ether, n-octanol, carbon tetrachloride and n-heptane. 1.124 g/cm <sup>3</sup> at 20 °C.
рН	10.5 (15 g/L, H2O, 20 °C); strong base; slightly less alkaline than ammonia.
Vapour Pressure	0.000000477 hPa at 25 °C (measured); 0.00005 hPa at 40 °C.
Vapour Density (Air=1)	5.1 (Air= 1). $(0.005 \text{ compared to } (0.840 - 1))$
Volatile Component	$\sim 0.003 \text{ compared to (n-bulkc=1)}$ .
Partition Coefficient: n-octanol/water	: Log P (o/w): -2.3 at 25 °C.
Surface Tension	0.0484 N/m @ 20 °C.
Flash Point	190.5 °C (OC); 179 °C (CC).
Flammability	Combustible.
Auto-Ignition Temperature Flammable Limits -	315 °C; 325 °C. 3.6 vol%; 1.3 vol%.
Lower Flammable Limits - Upper	7.2 vol%; 8.5 vol%.
Explosion Properties Molecular Weight	Above flash point, vapour-air mixtures are explosive within flammable limits noted above. Slightly flammable in presence of open flames, sparks and static discharge. 149.19
Dynamic Viscosity	601 cP (601 mPa.s) @ 25 °C.
Other Information	Index of refraction: 1.4852 @ 20 °C. Critical temperature: 514.3 °C. Critical pressure: 24.2 mmHg.
10. Stability and	reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Air-, moisture- and light-sensitive. Hygroscopic:
	absorbs moisture or water from the air. Darkens/turns brown on exposure to air or light.
Conditions to Avoid	Extremes of temperature, excess heat, ignition sources, exposure to light, direct sunlight air, moist air, moisture, or water and incompatible materials.

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Product Name :	TRIETHANOL	AMINE	
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Incompatible Materials	Acids, oxidizing (formation of: ni	agents, reducing agents, organic mater trosamines), halogenating agents, mois and zinc	rials, anhydrides, nitrites, nitriles and nitrous acid ture, metals, copper, copper alloys, galvanized
Hazardous Decomposition	Irritating, corros nitrogen (NO, N	ive and highly toxic gases or fumes, inc O2, etc) and hydrogen cyanides.	luding oxides of carbon (CO, CO2), oxides of
Products Possibility of hazardous reactions	The substance i s agents, organic react with variou Reaction with in presence of alu flammable hydro	s a weak base. Highly reactive with oxid materials, metals. Slightly reactive to re us halogenated organic solvents, resulti organic acid chloride releases poisonou minium results in excessive corrosion a ogen gas.	dizing agents, acids. Reactive with reducing eactive with moisture. Product may potentially ng in temperature and/or pressure increases. us gas/fumes. Heating above 50 °C in the nd potential chemical reaction releasing
Hazardous Polymerization	Will not occur.		
11. Toxicologica	I Information		
Ingestion	Anticipated to hi injury is not exp oesophagus, an absorbed. May a The chemical w (LD50) in experi sub-lethal effect 2011).	ave low acute toxicity, with effects main ected from this substance. May cause in d gastrointestinal irritation with abdomin also affect behaviour, sense organs, kic as of low acute toxicity in animal tests for mental animals (rats, mice and guinea s included agitation, elevated respiratio	ly resulting from its alkalinity. Significant caustic rritation or burns in the mouth, pharynx, and hal pain, nausea, vomiting and diarrhoea. Rapidly Iney, liver and urinary system. ollowing oral exposure. The median lethal dose pigs) is 5200–11300 mg/kg bw. Observed n and reduced grooming (NIWL, 2003; CIR,
Inhalation	Inhalation of mis coughing, sore i heated material discharge, ches cardiovascular s Due to the low v mg/m <sup>3</sup> . In a stud deaths were ren	st, vapour and aerosols may cause resp throat, breathing difficulty, headache, na or mist may cause irritation of the respit t pain, coughing and hypoxia. May also system. "apour pressure of the chemical, the hig by conducted in rats (strain not specified corted. One out of 12 rats exposed show	biratory tract irritation. Symptoms may include ausea and dizziness. Inhalation of vapor from ratory tract, experienced as nasal discomfort and affect the liver, blood, urinary system and hest attainable vapour concentration is 1.8 d) exposed to the chemical (1.8 mg/m <sup>3</sup> ), no ved signs of chronic bronchitis (BEACH).
Skin	May cause mild repeated contac have been confect temperatures. C adverse effects. The chemical w dose (LD50) in 1 erythema 24 ho	skin irritation, with burning pain, itching the Allergic contact allergies have been r bunded by exposure to other chemicals themical by-products resulting from heat as of low acute toxicity in animal tests for rabbits is greater than 2000 mg/kg bw. ( urs after exposure, resolving after 6–10	l, and redness, especially on prolonged or eported following dermal exposures, but reports or to ethanolamines and other chemicals at high ting may have a role in the development of ollowing dermal exposure. The median lethal Observed sublethal effects included mild days (REACH: CIR, 2011).
Eye	May cause mild possible permar	to moderate eye irritation, with burning nent corneal damage.	pain, stinging, redness, blurring, tearing and
Carcinogenicity	Triethanolamine carcinogenicity route. The avai The Internationa as to its carcino humans and exi	[102-71-6] Considering the animal stud through the oral route and equivocal ev lable data do not warrant hazard classif al Agency for Research on Cancer (IAR genicity to humans' (Group 3), based of perimental animals (IARC, 2000).	dies conducted, there is no evidence of idence of carcinogenicity through the dermal ication. C) has classified the chemical as 'not classifiable n inadequate evidence for carcinogenicity in
Reproductive Toxicity STOT-single exposure	The chemical do and is equivoca Specific target c	bes not show specific reproductive or de I through the oral route. The available or organ toxicity - Single Exposure Categor	evelopmental toxicity through the dermal route data do not warrant a hazard classification. y 3 (respiratory tract irritation)
Chronic Effects Mutagenicity	Prolonged and/c ulceration of the concentrations of serious damage skin exposure m effects were als conditions, cont shown themselv Mutagenic effect	or repeated contact may cause mild skin skin, dermatitis, and/or skin sensitization of triethanolamine to rats led to a necrot to health by prolonged exposure if swa hay cause liver, kidney, lung, adrenal ar o observed in animals given exaggerate act with nitrites or nitric acid can lead to res to be carcinogenic in animal experint ts have been observed on tests with hu	n irritation, burning of the skin, skin necrosis, on. Repeated dermal application of high tizing inflammatory process in the skin. Danger of allowed. Prolonged and repeated ingestion and not nerve damage. Heart and nervous system ed doses of diethanolamine. Under given the formation of nitrosamines, which have nents. man lymphocytes.

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Other Information	May affect genetic material: cytogenic analysis (human lymphocyte) = 100 µmol/L; sister chromatid exchange (human lymphocyte) = 1 mmol/L. Triethanolamine did not induce mutations in bacteria, unless nitrite was also present. It did not influence the frequency of micronuclei in mouse peripheral blood in vivo after dermal application. Triethanolamine did not induce unscheduled DNA synthesis, sister chromatid exchange, chromosomal aberrations or cel transformation in rodent cells in vitro. Triethanolamine had no effect on sex-linked recessive lethal mutations in Drosophila melanogaster or on gene conversion in Saccharomyces cerevisiae. NICNAS - 'HUMAN HEALTH TIER II ASSESSMENT FOR Ethanol, 2,2',2"-nitrilotris- CAS Number: 102-71-6'		
12. Ecological inf	ormation		
Ecotoxicity	Toxic for aquatic organisms. Harmful effect due to pH shift. Hazard for drinking water supplies.		
Persistence and degradability	Biological degradableness: 96 % modified OECD Screening T. Readily biodegradable. ThOD: 2.04 g/g_COD: 1.50 g/g_BOD5: 0.90 g/g		
Mobility	Distribution: log P(o/w): -1.32. The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected		
Bioaccumulative Potential	No bioaccumulation is to be expected (log P(o/w <1). Bioconcentration factor: <0.4 (42 d), Cyprinus carpio (OECD Guideline 305C)		
Environmental Protection	Do not allow to enter waters, waste water, or soil!		
Acute Toxicity - FISH	Danhnia EC50: 2038 ma/l /24 h		
Daphnia	Daphinia 2000. 2000 1119/1 /24 11.		
13. Disposal cons	iderations		
Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations. Dispose of as unuse product. When uncleaned empty containers/packing material is passed on the recipient must be warned of any possible hazard that may be caused by the residues.		
14. Transport info	rmation		
Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.		
15. Regulatory in	ormation		
Regulatory Information	All of the significant ingredients in this formulation are compliant with NICNAS regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.		
Poisons Schedule	S5		
16. Other Informa	tion		
Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Bail 7th. Ed.', 2007.		

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: Contact All information provided in this data sheet or by our technical representatives is compiled from the best Person/Point

knowledge available to us. However, since data, safety standards and government regulations are

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