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Page: 1 of 6

Infosafe No™ 1CHHM

Issue Date :July 2021

RE-ISSUED by CHEMSUPP

Product Name **BENZALDEHYDE**

Classified as hazardous

1. Identification		
GHS Product Identifier	BENZALDEHYDE	
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 00	08 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +0	54-4-917-9888 (International)
E-mail Address	www.chemsupply.com.au	
Recommended use of the chemical and restrictions on use		e and nitrate, plastics additive,
Other Names	Name	Product Code
	BENZALDEHYDE LR BENZALDEHYDE BP Benzoic aldehyde Artificial essential oil of almond Synthetic oil of bitter almond Bitter almond oil	BL046 BP046
Other Information	before use or application intended purp before use or application is recommended upon ChemSupply Australia Pty Ltd with advice in relation to the suitability of disclaimed. Except to the extent prohile any statute as to the merchantable qual purpose is hereby excluded. This produce provisions of Part V, Division 2 of the liability of ChemSupply Australia Pty 1 supply of equivalent goods or payment of acquiring equivalent goods.	ascertain the suitability of the product oose. Preliminary testing of the product ed. Any reliance or purported reliance respect to any skill or judgement or of this product of any purpose is bited at law, any condition implied by lity of this product or fitness for any ct is not sold by description. Where the e Trade Practices Act apply, the otd is limited to the replacement of
2. Hazard Identifi	cation	
GHS classification of the substance/mixture Signal Word (s)	Acute Toxicity - Oral: Category 4 Acute Toxicity - Inhalation: Category 4 WARNING	1
Hazard Statement (s)	H302 Harmful if swallowed. H332 Harmful if inhaled.	
Pictogram (s)	Exclamation mark	
	$\langle \cdot \rangle$	
D	P261 Avoid broathing dust / fumo / gas / mist	

Precautionary	Avoid breathing dust/fume/gas/mist/vapours/spray.
statement –	Wash thoroughly after handling.
Prevention	Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.



Page: 2 of 6

Infosafe No™	1CHHM	Issue Date :July 2021	RE-ISSUED by CHEMSUPP
Product Name	BENZALDEHYD	E	
		Classified as hazard	ous
Precautionary statement – Response	unwell. P330 Rinse mo P304 + P340 1 position com	outh. IF INHALED: Remove victim to fortable for breathing.	NTER or doctor/physician if you feel fresh air and keep at rest in a
Precautionary statement – Disposal		POISON CENTER or doctor/ physon contents/container to an appro-	-
3. Composition/in	formation on in	gredients	
Information on Composition	1. Air oxidat 2. reaction o	can be derived from the fol- tion of toluene with uranium of benzyl dichloride with lin n from oil of bitter almond.	or molybdenum oxides as catalysts;
Ingredients	<mark>Name</mark> Benzaldehyde	<u>CAS</u> 100-52-7	Proportion 100 %
Other Information	-	normally contains trace amovide and nitrobenzene.	unts of chlorine, water, benzoic acid,
4. First-aid measu	ires		
Inhalation	artificial re		a to fresh air immediately. Apply If breathing is difficult, give r symptoms appear.
Ingestion		been removed. DO NOT INDUCE	ately, repeat until all traces of VOMITING. Seek medical advice if
Skin	thoroughly w:	ith copious amounts of running	fore re-use. Wash affected area ng water. Remove contaminated clothing ptoms develop seek medical attention.
Eye contact	Irrigate with		for 15 minutes. Seek medical
First Aid Facilities	Maintain eye	wash fountain and safety show	wer in work area.
Advice to Doctor	Treat symptor the patient.	natically based on judgement	of doctor and individual reactions of
Other Information		contact a Poisons Information 0800 764 766) or a doctor.	n Centre (Phone eg Australia 13 1126;
5. Fire-fighting m	easures		
Hazards from	Oxides of car	rbon.	

Combustion	
Products	
Large	fire: Use foam, dry chemical, CO2 or water spray. fire: Use foam, fog or water spray - Do NOT use water jets. ter spray to cool containers.
Hazchem Code 3[Z]	
	fire conditions this material may decompose to form flammable and/or sive mixtures in air.

6. Accidental release measures

Spills & Disposal	Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. All equipment in handling this product must be earthed. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Vapour suppressing foam may be used to control vapours. Water spray may be used to knock down or divert vapours. Absorb spill with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal.
	SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.



Page: 3 of 6

Infosafe No™	1CHHM	Issue Date	:July	2021	RE-ISSUED by CHEMSUPP
Product Name	BENZALDEHYDE				
		Classifie	d as ha	azardous	
Personal Precautions		area of all nor s and clothing		ial personnel.	Avoid inhalation, contact
Personal Protection	Wear protectiv	re clothing spe	cified	for normal oper	ations (see Section 8)
Clean-up Methods - Small Spillages	using non spar	king tools and	l place .	in a labelled,	control material. Shovel up sealable container for n a labelled drum or
7. Handling and storage					
Precautions for Safe Handling		2	2	Avoid contact electrostatic	with skin and eyes. Take charge.
Conditions for safe storage, including any incompatibilities	area. Store a	way from sourc	es of h	eat or ignition	tore in well ventilated . Store away from oxidizing octed against physical

any incompatibilitiesagents. Keep containers securely sealed and protected against physical
damage.Storage RegulationsRefer Australian Standard AS/NZS 4681:2000 'The storage and handling of Class
9 (miscellaneous) dangerous goods and articles'.

8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable.
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Where sufficient ventilation is not available, avoid breathing dusts by wearing an AS 1716 approved P1 or P2 particulate filter respirator. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Wear anti-static protective clothing if there is a risk of ignition from static electricity.
Hygiene Measures	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 chemical properties

Form	Liquid
Appearance	Colourless to pale yellow coloured, oily liquid.



Page: 4 of 6

Infosafe No™ 1CHHM

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Product Name **BENZALDEHYDE**

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Odour	Odour resembling oil of bitter almond.
Melting Point	-26 °C
Boiling Point	179 °C
Solubility in Water	Slightly soluble in water (@ 20 °C)
Solubility in Organic Solvents	Very soluble in alcohol, ether, benzene, acetone, petroleum ether, concentrated sulfuric acid, liquid carbon dioxide, liquid ammonia, methylamine and diethylamine.
Specific Gravity	1.040 - 1.050 (@ 20 °C)
рН	~ 5.9 (1 g/l, H2O, 20 °C)
Vapour Pressure	0.127 mm Hg (25 °C)
Vapour Density (Air=1)	3.65
Evaporation Rate	0.04 (Butyl acetate = 1)
Flash Point	64 °C (closed cup)
Flammability	Combustible.
Auto-Ignition Temperature	191.6 °C
Flammable Limits - Lower	1.4 vol%
Flammable Limits - Upper	8.5 vol%
Molecular Weight	106.13
Other Information	Taste: Burning aromatic taste. Refractive Index: 1.545 (20 °C, 589nm)

10. Stability and reactivity

Chemical Stability	Moderately stable. Oxidises readily. Oxidises in air to benzoic acid. This process is accelerated by light.
Conditions to Avoid	Exposure to moisture. Light. Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Strong oxidising agents, strong reducing agents, strong acids, strong bases, aluminium, iron, phenols and oxygen.
Hazardous Decomposition Products	Oxides of carbon and unidentified organic compounds.
Possibility of hazardous reactions	May react violently with strong oxidising agents. Condensation reaction occurs in contact with strong bases, strong reducing agents and alkaline cyanide solution. Heavy metal salts catalyse the oxidation of benzaldehyde by atmospheric oxidation.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 1300 mg/kg
Acute Toxicity - Dermal	LD50 (rabbit): 1250 mg/kg
Ingestion	Harmful if swallowed. Ingestion of material may cause irritation to the mouth and may cause diarrhoea, vomiting and abdominal pain.
Inhalation	Harmful if inhaled. May cause irritation to the mucous membrane and the upper airways of the nose, throat and lungs. May cause dizziness, headaches, drowsiness and nausea.
Skin	Skin contact may cause irritation and allergic reaction in sensitive individuals.



Page: 5 of 6

Infosafe No™ 1CHHM

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Product Name **BENZALDEHYDE**

Eye	The liquid or high concentrations of vapours can cause irritation with redness, tearing and inflammation.				
Respiratory sensitisation	Not classified based on available information.				
Skin Sensitisation	Not classified based on available information.				
Germ cell mutagenicity	Not classified based on available information.				
Carcinogenicity	Not classified based on available information.				
Reproductive Toxicity	Not classified based on available information.				
STOT-single exposure	Not classified based on available information.				
STOT-repeated exposure	Not classified based on available information.				
Chronic Effects	Repeated or prolonged skin contact may remove skin oils, irritate the skin and cause dermatitis (redness, swelling, scaling and itching). Chronic inhalation may cause lung injury, convulsions and respiratory failure.				
Mutagenicity	Not classified based on available information.				

12. Ecological information

Persistence and degradability	Readily biodegradable.
Other Precautions	Do not allow material to be released to the environment without proper governmental permits.
Acute Toxicity - Daphnia	EC50 - Daphnia magna (Water flea) - 50 mg/l - 24 h

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
Waste Disposal	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. Transport information

Transport Information	Class 9 Miscellaneous dangerous goods shall not be loaded in a vehicle with: - Class 1 Explosives - Class 5. 1 Oxidizing agents (when Class 9 substance capable of igniting and burning - Class 5. 2 Organic peroxides (when Cl. 9 capable of igniting/burning)
U.N. Number	1990
UN proper shipping name	BENZALDEHYDE.
Transport hazard class(es)	9
Hazchem Code	3[Z]
Packing Group	III
IERG Number	18

15. Regulatory information

Regulatory Information	All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information



Safety Data Sheet

Page: 6 of 6

Infosafe No™	1CHHM	Issue Date :July 2021	RE-ISSUED by CHEMSUPP					
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Classified as hazardous								
Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.							
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: 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 completenes or accuracy to the information contained herein. ChemSupply Australia Pty Ltd 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.							
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