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Infosafe No™ 3CHG8

Issue Date : November 2019

RE-ISSUED by ABS

Product Name : OIL RED O

Classified as hazardous

1. Identification	
GHS Product	OIL RED O
Identifier	
Product Code	AORO
Company Name	AUSTRALIAN BIOSTAIN Pty Ltd
Address Telephone/Fax	24 - 28 Stratton Drive, Traralgon, Victoria, Australia, 3844 www.australianbiostain.com.au Tel: (03) 5176 2855
Number Emergency phone number	CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-9888 (International)
Recommended use of the chemical and restrictions on use	Laboratory reagent.
Other Information	Australian Biostain Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Australian Biostain Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Biostain Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.
2. Hazard Identifi	
GHS classification of the	Eye Damage/Irritation: Category 2A Flammable Liquids: Category 2
substance/mixture Signal Word (s)	Specific target organ toxicity Single Exposure Category 3 (respiratory tract irritation) DANGER
Hazard Statement	H225 Highly flammable liquid and vapour.
(s)	H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Pictogram (s)	Flame, Exclamation mark,
Precautionary statement –	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed.
Prevention	 P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	Skin P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Inhaled P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell.
	Eyes P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,



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Product Name :	OIL RED O					
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Precautionary statement – Storage	if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. Fire P370+P378 In case of fire: Use alcohol resistant foam, dry chemical or dry sand for extinction. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.					
Precautionary statement – Disposal Other Information	P501 Dispose of contents/container in accordance to local, state and federal government regulations. All Dye solutions should be treated as potentially Carcinogenic, and only techniques consistent with					
		ry Practice should be employed		,		
3. Composition/i		on ingredients				
Chemical Characterization	Liquid					
Ingredients	<u>Name</u>	CAS	Proportion	Hazard Symbol	<u>Risk Phrase</u>	
	lso Propanol Oil Red O	67-63-0 1320-06-5	>=99 % 0.5 % w/v			
4. First-aid meas	ures					
Inhalation		ove from contaminated area to f eathing is difficult, give oxygen.				
Ingestion	DO NOT INDU	noroughly with water immediatel	advice if effects pe	rsist.		
Skin	wash before re	areas with copious quantities o -use. Seek medical attention if	irritation develops	or persists.	-	
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.					
First Aid Facilities	-	ash fountain and safety shower				
Advice to Doctor		atically based on judgement of		•		
Other Information	For advice, cor 766) or a docto	ntact a Poisons Information Cen pr.	itre (Phone eg Aus	tralia 13 1126; New Z	ealand 0800 764	
5. Fire-fighting m						
Specific Methods Specific hazards	Small fire: Use Large fire: Use If safe to do so water until well preferred firefig HIGHLY FLAM	f water spray when fighting fire alcohol resistant foam, dry che alcohol resistant foam, fog or v , move undamaged containers after fire is out. Avoid getting w ghting medium, but if not availab MABLE: These liquids have a lo	mical, CO2 or wate vater spray - Do no from fire area. Coo vater inside contain ole, fine water spra ow flashpoint - Will	er spray. of use water jets. of containers with flood ers. Alcohol resistant y can be used. be easily ignited by h	foam is a leat, sparks or	
arising from the chemical	flame. Vapours will form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Fire will produce irritating, poisonous and/or corrosive gases. Vapours from runoff may create explosion hazard.					
Hazchem Code Precautions in	•2YE Wear SCBA an	nd fully-encapsulating, gas-tight	quit when bendling	n thasa substances of	tructural	
connection with Fire	e firefighter's unit	form is NOT effective for these		y mese subsidiites. S		
6. Accidental rele				\ <u>'11 '</u> · · · ·		
Spills & Disposal Personal	used when han leak if safe to d may be used to Absorb with ea absorbed mate EXPERT ADVIO	ignition sources (no smoking, fl adling the product must be earth to so - Prevent entry into waterw o control vapours - Water spray rth, sand or other non-combust rial and place it into loosely-cov CE ON HANDLING AND DISPO urea of all non-essential personr	ned. Do not touch o vays, drains or cor may be used to kr ible material. Use o vered metal or plas DSAL.	or walk through spilled offined areas. Vapour-s nock down or divert va clean, non-sparking to stic containers for late	I material. Stop suppressing foan pour clouds. pols to collect r disposal. SEEk	
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Product Name :	OIL RED O				
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Personal Protection	Wear protective	clothing specified for normal operations (see Section	1 8)		
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.				
7. Handling and	storage				
Precautions for Safe Handling	used in area whe mixing or handlir	ated areas away from all ignition sources. Intrinsica ere this chemical is being used. The use of compres ng is prohibited due to the vapour hazard. Containers tic charges when agitating or transferring product.	sed air for filling, discharging,		
Conditions for safe storage, including any incompatabilities	Keep container tightly closed and in a cool, dry, well-ventilated place, away from direct sunlight and other sources of heat or ignition. Isolate from incompatible substances. Store away from oxidizing agents. Keep containers closed at all times - check regularly for leaks. Do not eat, drink or smoke in areas of use or storage. Empty containers retain residue (liquid and/or vapour and can be dangerous. Do not pressure cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources or ignition.				
	ns Refer Australian Standard AS/NZS 2243.10:2004 'Safety in laboratories - Storage of chemicals'. Refer Australian Standard AS 1940-2017 'The storage and handling of flammable and combustible liquids'.				
Unsuitable Materials	Various plastics,	rubber.			

8. Exposure cont	trols/personal protection					
Occupational exposure limit values	<u>Name</u>	S	ſEL	T	WA	
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	ppm	Footnote
	Iso Propanol	1230	500	983	400	
Other Exposure Information	These Workplace Exposure Standa hazards. All atmospheric contamina workplace exposure standards shou concentrations of chemicals. They a The STEL (Short Term Exposure Lin 15 minutes and should not be repea minutes between successive expose airborne concentration of a particula 5 day working week.	tion should and not be us are not a me nit) is an exp ated for more ures at the S ar substance	be kept to a ed as fine of asure of rel bosure value than 4 tim STEL. The e when calcu	as low a level dividing lines ative toxicity. e that should es per day. T exposure valu ulated over a	as is work between s not be exc here shoul ie at the TV normal 8 h	able. These afe and dangerous eeded for more than d be at least 60 VA is the average our working day for a
Appropriate	Maintain the concentrations values I	pelow the T	VA. This m	ay be achieve	ed by proce	ess modification, use
	s of local exhaust ventilation, capturin					
Respiratory Protection	Where ventilation is not adequate, r mists. Select and use respirators in					
Trotection	selected in accordance with AS 171 Devices. When mists or vapours ex recommended: Approved respirator respirator type depends on exposure	5 - Selectior ceed the ex with organic	n, Use and l posure star	Maintenance ndards then t	of Respira he use of t	tory Protective ne following is
Eye Protection	The use of a face shield, chemical g Must comply with Australian Standa	oggles or sa				
Hand Protection	Wear gloves of impervious material Selection, use and maintenance. Fi circumstances. This can include me appropriate risk assessments. Avoi gloves outer surface. Dispose of glo	conforming inal choice c thods of har d skin conta	to AS/NZS of appropria odling, and ct when rer	2161: Occup te glove type engineering o noving gloves	ational pro will vary a controls as	tective gloves - ccording to individual determined by
Personal Protective Equipment	Personal protective equipment shou when all other reasonably practicabl Guidance in selecting personal prote Zealand or other approved standard	ld not solely le control me ective equip	be relied u easures do	pon to contro not eliminate	or sufficie	ntly minimise risk.
Body Protection	Flame retardant antistatic protective preferably with an apron. Clothing for for Protection Against Hazardous Cl	clothing. Cl or protection nemicals.	against cho	emicals shou	ld comply v	with AS 3765 Clothing
Hygiene Measures	Always wash hands before smoking protective equipment before storing		sing the toi	let. Wash coi	ntaminated	clothing and other
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	hemical properties
Form	Liquid
Appearance	Red, clear, mobile liquid.
Odour	Alcoholic
Melting Point	-89 °C
Boiling Point	82 °C
Specific Gravity	0.79
Vapour Pressure	43 hPa at 20 °C
n-octanol/water	Log P(oct) = 0.05. isopropanol
Flammability	Flammable. Keep away from heat, sparks or naked flames. Use flameproof equipment and fittings to prevent flammability risk. Electrically link and ground metal containers for transfer of the product to prevent accumulation of static electricity. Ensure adequate ventilation to prevent an explosive vapour-air mixture. Vapours will travel considerable distances to sources of ignition.
Flammable Limits - Lower	2.0%
Flammable Limits - Upper	12%
Explosion Properties	Not classified as explosive, but vapours may form explosive mixtures.
10. Stability and	reactivity
Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Heat, flames, ignition sources, electrostatic discharge, sunlight and incompatibles.
Incompatible Materials	Strong oxidising agents (e.g. chromium trioxide, nitric acid and nitrates, nitrogen oxides, nitrates, calcium hypochlorite, chlorine, sodium dichromate, hydrogen peroxide and other peroxides, permanganates and perchlorates), strong acids (e.g. nitric acid, sulfuric acid, fuming sulfuric acid, hypochlorous acid, oleum, perchloric acid), hydrogen peroxide-sulfuric acid combination, acid anhydrides, acetaldehyde, nitroform, organic nitro compounds, aldehydes, amines, alkali metals (e.g. sodium or potassium) or alkaline earth metals (e.g. magnesium or calcium), aluminium, crotonaldehyde or phosgene, potassium tert-butoxide, trinitromethane, iron and iron salts, hydrogen-palladium combination, ethylene oxide, hexamethylene diisocyanate and other isocyanates and tri-isobutyl aluminium. Not to be stored with explosives (Class 1), flammable gases in bulk (Class 2.1), poisonous gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidizing agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7). Exemptions may apply. Australian Dangerous Goods Code.
Hazardous Decomposition Products	Irritant gases, which may include unburned alcohol and toxic constituents, oxides of carbon and peroxides.
Possibility of	Contact with strong oxidising agents (e.g. nitrates, perchlorates, peroxides) increases risk of fire and explosion. Contact with phosgene forms isopropyl chloroformate and hydrogen chloride. Explosive thermal decomposition may occur in contact with iron salts. Mixture with hydrogen-palladium can ignite in air.
Hazardous Polymerization	Will not occur.
11. Toxicological	Information
Toxicology Information	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptoms or effects may occur.
Acute Toxicity - Oral	LD50 (rat): 5045 mg/kg.
Ingestion	Unlikely under normal occupational exposures, but swallowing a minor amount may cause minor throat irritation and vomiting. Ingestion of larger amounts (about 100 grams or more) may cause headache, dizziness, drowsiness, inebriation, unconsciousness, narcosis, gastrointestinal pain, cramps, nausea, vomiting and diarrhoea. Large amounts may cause respiratory paralysis, coma, unconsciousness and
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	death. Swallowing	the liquid may cause aspiration into the lungs with t	the risk of chemical pneumonitis.
	Aspiration can resi	ult in severe, life-threatening lung damage.	
Inhalation		e nose, throat and upper respiratory tract can occur	
		use central nervous system (CNS) depression, base ted alcohols. Symptoms may include headache, na	
	drowsiness, stagge	ering, ataxia, deep narcosis and incoordination. Hig	
Skin	unconsciousness a	and death. on the skin, possibly followed by secondary inflamn	action Brief contact is not irritating
SKIII		o the skin, based on human and animal evidence.	
_	with possible syste	emic effects.	
Eye		e eye irritant, based on animal evidence. Exposure ppm for 3 to 5 minutes produced mild irritation, whi	
	objectionable. Dire	ect eye contact with the liquid and splashes may cal	use severe eye irritation, pain,
	redness, possible	corneal burns and eye damage.	
Skin Sensitisation		ed on available information.	
Germ cell mutagenicity	Not classified base	ed on available information.	
Carcinogenicity	Isopropanol [67-63	8-0] is evaluated in the IARC Monographs (Vol. 15, S	Suppl. 7, Vol. 71; 1999) as Group
		as to carcinogenicity to humans.	,
Reproductive		aphs.iarc.fr/ENG/Monographs/vol71/mono71-45.pd	
Toxicity	animal studies.		
STOT-single	Not classified base	ed on available information.	
exposure STOT-repeated	Not classified base	ed on available information.	
exposure	Not classified base		
Aspiration Hazard	Not classified base	ed on available information.	
Chronic Effects		nged skin contact can cause drying, cracking and d	
		(e.g. clothing saturated with the product) can be irrinave noted increased liver and kidney weights in exp	
		. With particular relevance to the liver, this weight c	
		ic response rather than a toxic effect of the alcohol.	Occupational exposure to
Mutagenicity		ot been reported as causing long term effects. ed on available information.	
		re by inhalation or ingestion has produced decrease	ed body weight, a reversible
	increase in motor a	activity, increased liver weight, and signs of central	nervous system (CNS) depression
		Decreased testes weight has been observed in mice rats exposed to high concentrations. Kidney injury h	
		and mice exposed to high concentrations. Ruliney injury in	as been observed in rais
12. Ecological in	formation		
Ecological	No ecological prob	lems are to be expected when the product is handle	ed and used with due care and
Information	attention.	mation relates to isoproped	
Ecotoxicity		mation relates to isopropanol. and plankton. According to current knowledge, do	es not cause interferences in
-	waste water treatm	nent if used appropriately.	
Persistence and		n: Rapid degradation. (air) on: Biological degradableness: 95 % /21 D of modif	ied OECD Screening Test
degradability		D 49 % from TOD /5 d. COD 96 % from TOD.	ied OLOD Screening rest.
Mobility		o/w): 0.05 (experimental).	
Bioaccumulative	No bioaccumulatio	in is to be expected (log $P(o/w < 1)$).	
Potential	LC50 (Pimenhalos	promelas): 9640 mg/l /96 h.	
Acute Toxicity - Fish Acute Toxicity -		nus subspicatus): > 1000 mg/l /72 h.	
Algae		$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000$	
A	FOFO (Dhatakt-	viume release have um) ECEO, 00000 mag/l /1E main Mian	

Maximum permissible toxic concentration: EC5 (Pseudomonas putida): 1050 mg/l /16 h.



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Acute	Toxicity -
Other	Organisms

Maximum permissible toxic concentration: EC5 (Entosiphon sulcatum): 4930 mg/l /72 h.

13. Disposal considerations

Disposal	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local,
Considerations	state and federal government regulations.

14. Transport information

Transport	Dangerous Goods of Class 3 Flammable Liquids, are incompatible in a placard load with any of the
Information	following: - Class 1, Class 2.1, if both the Class 3 and Class 2.1, dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane and Class 7.
U.N. Number	1993
UN proper shipping	FLAMMABLE LIQUID, N.O.S (Contains 99% Isopropanol)
name	
Transport hazard	3
class(es) Hazchem Code	•2YE
Packing Group	II
EPG Number	3A1
IERG Number	14

15. Regulatory information

To: negulatory i	normation
Regulatory	All of the significant ingredients in this formulation are compliant with NICNAS regulations. Not listed
Information	under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
References	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 Rail 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 Chemical 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]'.
Other Information	Procedures consistent with good laboratory practices should always be employed. PROTOCOLS IN WHICH THIS SOLUTION IS USED, OR THE PROXIMITY OF OTHER REAGENTS MAY SIGNIFICANTLY ALTER RISK STATUS.
	All Dye solutions should be treated as potentially Carcinogenic, and only techniques consistent with good Laboratory Practice should be employed. End Of MSDS
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