SAFETY DATA SHEET



1. Product and Company Identification

Product identifier ProAcqua TM Maintain Other means of identification ProAcqua Grow Synonyms Proprietary blend of plant nutrients Recommended use Source of plant nutrients for food and non-food crops Recommended restrictions None known. Manufacturer information Compass Minerals USA Inc. 9900 West 109th Street, Suite 100 Overland Park, KS 66210 US Phone (913) 344-9200 Supplier Compass Minerals Manitoba Inc. 6700 Century Avenue Mississauga LSN 6A4 CA http://www. compassminerals.com/ Phone (905) 567-0231 techservicesrequests @ compassminerals.com CHEMTREC 1-800-424-9300 CANUTEC 1-613-996-6666 Physical hazards Oxidizing solids Serious eye damage/eye irritation Category 3 Health hazards Skin corrosion/irritation Serious eye damage/eye irritation Category 1 Specific target organ toxicity, single exposure Category 3 respiratory tract irritation Environmental hazards Not classified WHMIS 2015 defined hazards Not classified Label elements Vot classified	roduct identifier			
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Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Serious eye damage/eye irritationCategory 1BReproductive toxicitySingle exposureSpecific target organ toxicity, single exposureCategory 3 respiratory tract irritationEnvironmental hazardsNot classified.WHMIS 2015 defined hazardsNot classified	hysical hazards	Oxidizing solids	Category 3	
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Environmental hazardsNot classified.WHMIS 2015 defined hazardsNot classified				
	nvironmental hazards			
Label elements	/HMIS 2015 defined hazards	Not classified		
V V V				
Signal word Danger	Signal word	Danger		
Hazard statementMay intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause respiratory irritation.	Hazard statement	May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child.		
Precautionary statement	Precautionary statement			
PreventionDo not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smo Keep away from clothing and other combustible materials. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.	Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.		
ResponseIn case of fire: Use appropriate media to extinguish. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pres and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	Response	 In case of fire: Use appropriate media to extinguish. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 		
Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.	Storage	•		
Disposal Dispose of contents/container in accordance with local/regional/national/international regulati	-			

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/Information on Ingredients

Mixture **Chemical name** Common name and synonyms **CAS** number % Inorganic acid HMIRA 11562 HMIRA 11562 Metal amine chelate HMIRA 11562 HMIRA 11562 Nitrate salt #1 HMIRA 11562 HMIRA 11562 Nitrate salt #2 HMIRA 11562 HMIRA 11562

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The filing date associated with this trade secret exemption is 2017-05-31

	4. First Aid Measures		
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.		
Skin contact	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse.		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.		
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.		
General information	Take off all contaminated clothing immediately. Contact with combustible material may cause fire. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep ou of reach of children.		
	5. Fire Fighting Measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.		
Specific methods	Cool containers exposed to flames with water until well after the fire is out.		
General fire hazards	May intensify fire; oxidizer. Contact with combustible material may cause fire.		
Hazardous combustion products	May include and are not limited to: Oxides of phosphorus. Ammonia.		

	6. Accidental Release Measures			
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep away from clothing and other combustible materials. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.			
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Ventilate the contaminated area. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplie for advice. For waste disposal, see section 13 of the SDS.			
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.			
7. Handling and Storage				
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Take any precaution to avoid mixing with combustibles. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Avoid breathing dust. Provide adequate ventilation. Pregnant or breastfeeding women must not handle this product. Observe good industrial hygiene practices. Wash thoroughly after handling. When using do not eat or drink.			
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Keep away from heat. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store locked up.			

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Inorganic acid (CAS HMIRA 11562)	STEL	6 mg/m3	Inhalable
	TWA	2 mg/m3	Inhalable
Canada. Manitoba OELs (Reg. 217/	2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	Form
Inorganic acid (CAS HMIRA 11562)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Metal amine chelate (CAS HMIRA 11562)	TWA	1 mg/m3	Dust and mist.
,		0.2 mg/m3	Fume.
Canada. Ontario OELs. (Control of	Exposure to Biological or Ch	emical Agents)	
Components	Туре	Value	Form
Inorganic acid (CAS HMIRA 11562)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
US, ACGIH Threshold Limit Values			
	Туре	Value	Form
Components Inorganic acid (CAS HMIRA		Value 6 mg/m3	Form Inhalable fraction.
Components Inorganic acid (CAS HMIRA	Туре		-
US. ACGIH Threshold Limit Values Components Inorganic acid (CAS HMIRA 11562) Metal amine chelate (CAS HMIRA 11562)	Type STEL	6 mg/m3	Inhalable fraction.
Components Inorganic acid (CAS HMIRA 11562) Metal amine chelate (CAS	Type STEL TWA	6 mg/m3 2 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide t Components	o Chemical Hazards Type	Value	Form		
Metal amine chelate (CAS HMIRA 11562)	TWA	1 mg/m3	Dust and mist.		
Biological limit values	No biological exposure limits noted for the ingredient(s).				
Appropriate engineering controls	Ensure adequate ventilation.				
Individual protection measures	, such as personal protective equipme	nt			
Eye/face protection	Safety glasses or goggles.				
Skin protection					
Hand protection	Wear suitable gloves. Confirm with a reputable supplier first.				
Other	As required by employer code.				
Respiratory protection	Wear dust mask.				
Thermal hazards	Not applicable.				
General hygiene considerations	Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.				

9. Physical and Chemical Properties				
Appearance	Powder			
Physical state	Solid.			
Form	Solid.			
Color	Beige			
Odor	Not available.			
Odor threshold	Not available.			
рН	3.9			
Melting point/freezing point	Not available.			
Initial boiling point and boiling range	Not available.			
Pour point	Not available.			
Specific gravity	Not available.			
Partition coefficient (n-octanol/water)	Not available.			
Flash point	Not available.			
Evaporation rate	Not available.			
Flammability (solid, gas)	Not available.			
Upper/lower flammability or explosive limits				
Flammability limit - lower (%)	Not available.			
Flammability limit - upper (%)	Not available.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	Not available.			
Vapor density	Not available.			
Relative density	Not available.			
Solubility(ies)	350 g/l			
Auto-ignition temperature	Not available.			
Decomposition temperature	Not available.			
Viscosity	Not available.			
Other information				
Bulk density	1140 g/cm ³			
Explosive properties	Not explosive.			
Oxidizing properties	May intensify fire; oxidizer.			

10. Stability and Reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat. Do not mix with other chemicals.
Incompatible materials	Combustible material. Reducing agents.
Hazardous decomposition products	May include and are not limited to: Ammonia. Oxides of phosphorus.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.			
Information on likely routes of e	xposure			
Ingestion	May cause stomach distress, nausea or vomiting.			
Inhalation	May cause respiratory tract irritation. Prolonged inhalation may be harmful.			
Skin contact	Causes skin irritation.			
Eye contact	Causes serious eye irritation.			
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.			

Information on toxicological effects

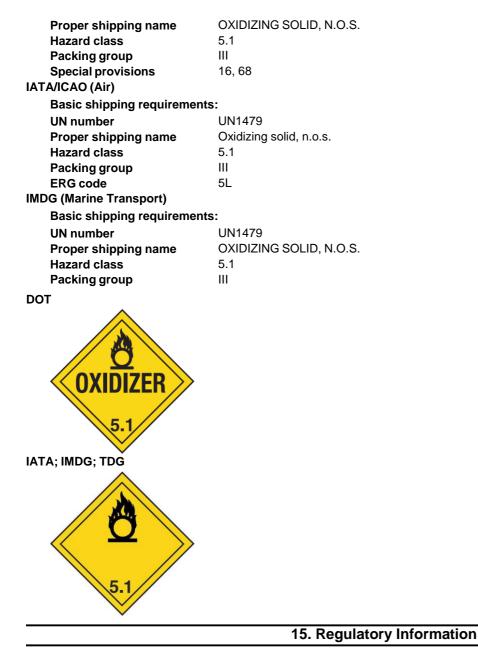
Acute toxicity	May cause respiratory irritation.	
Components	Species	Test Results
Inorganic acid (CAS HMIRA	A 11562)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, HSDB
		> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 2.1 mg/L, 4 Hours, ECHA
		> 2 mg/L, 5 Hours, ECHA
		> 0.2 mg/L, 4 Hours
Oral		
LD50	Chicken	2950 mg/kg, HSDB
		3 g/kg
	Dog	2000 mg/kg, HSDB
	Mouse	3450 mg/kg
	Rat	> 2600 mg/kg
		4080 mg/kg, ECHA, female
		3450 mg/kg, ECHA, male
Metal amine chelate (CAS I	HMIRA 11562)	
Acute		
Dermal		
LD50	Not available	
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5.3 mg/L, 4 Hours
		5.3 mg/l/4h, ECHA
Oral		
LD50	Mouse	830 - 1000 mg/kg, ECHA
	Rat	830 mg/kg
Nitrate salt #1 (CAS HMIRA		5 5

Nitrate salt #1 (CAS HMIRA 11562)

Components	Species	Test Results
Acute		
Dermal		
LD50	Rabbit	7940 mg/kg
	Rat	> 5000 mg/kg, ECHA
		> 5000 mg/kg, 24 Hours
Oral		
LD50	Mouse	2085 mg/kg, ECHA
	Rat	4500 mg/kg, HSDB
		2950 mg/kg
		2800 mg/kg, HSDB
		2217 mg/kg, Sigma Aldrich
litrate salt #2 (CAS HMIRA 11562)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg, ECHA
2200		> 5000 mg/kg, 24 Hours
Inholation		> 5000 mg/kg, 24 Houis
Inhalation LC50	Rat	> 0.5 mg/l/4h, ECHA
LCSU	Nat	-
		> 0.5 mg/L, 4 Hours
Oral	D 11 %	
LD50	Rabbit	1901 mg/kg, ECHA
		1166 mg/kg, HSDB
	Rat	> 2000 mg/kg
		3750 mg/kg, ECHA
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
oedema value	Not available.	
Serious eye damage/eye	Causes serious eye irritation.	
rritation	,	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin ser	nsitization.
lutagenicity	No data available to indicate product or any co mutagenic or genotoxic.	
Carcinogenicity	See below.	
Canada - Manitoba OELs: car	cinogenicity	
BORATE COMPOUNDS, I FRACTION (CAS HMIRA	NORGANIC, INHALABLE Not classifiable	e as a human carcinogen.
Not listed.	alea Substances (23 CFN 1310.1001-1030)	
Reproductive toxicity	May damage fertility or the unborn child.	
eratogenicity	Not available.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.	

Aspiration hazard Chronic effects

	~ 	12. Ecological Information		
	See below			
Ecotoxicity	See below			
Ecotoxicological data Components		Species	Test Results	
Inorganic acid (CAS HMIRA 115	62)			
Crustacea	EC50	Daphnia	134 mg/L, 48 Hours	
Aquatic				
Fish	LC50	Razorback sucker (Xyrauchen texanus)	> 100 mg/L, 96 hours	
		Channel catfish (Ictalurus punctatus)	838 mg/L, 96 hours	
		Western mosquitofish (Gambusia affinis)	22.5 mg/L, 96 hours	
Persistence and degradability	No data is a	vailable on the degradability of this product.		
Bioaccumulative potential		No data available.		
Mobility in soil	No data ava	No data available.		
Mobility in general	Not available	е.		
Other adverse effects		ther adverse environmental effects (e.g. ozone depletion, photochemical ozone creation ntial, global warming potential) are expected from this component.		
		13. Disposal Considerations		
Disposal instructions	Dispose of c	contents/container in accordance with local/re	egional/national/international regulations.	
Local disposal regulations	Dispose in a	accordance with all applicable regulations.		
Hazardous waste code	disposal cor	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	be disposed	ontainers or liners may retain some product residues. This material and its container mus sed of in a safe manner (see: Disposal instructions).		
Contaminated packaging		Since emptied containers may retain product residue, follow label warnings even after container emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
		14. Transport Information		
Transport of Dangerous Goods (TDG) Proof of Classification	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of			
General	Limited and Limited and			
	Passenger a Passenger a Passenger a Cargo Aircra	and Cargo Aircraft: Limited Quantity: Pkg Ins and Cargo Aircraft: Limited Quantity: Max Ne and Cargo Aircraft: Pkg Inst: 559 and Cargo Aircraft: Max Net/Qty Pkg: 25 kg aft Only: Pkg Inst: 563 aft Only: Max Net Qty/Pkg: 100 kg		
U.S. Department of Transporta Basic shipping requiremer				
UN number	UN1479			
Proper shipping name	Oxidizing so	lid, n.o.s.		
Hazard class	5.1			
Packing group Special provisions	 62 149 IB9	, IP3, T1, TP33		
Packaging exceptions	152	, 15, 11, 153		
Packaging non bulk	213			
Packaging bulk	240			
Transportation of Dangerous G	-	anada)		
Basic shipping requiremer				
UN number	UN1479			
#28012		Page: 7 of 10	Issue date 17-October-2017	



Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.			
Export Control List (CEPA 1	999, Schedule 3)			
Not listed.				
Greenhouse Gases				
Not listed.				
Precursor Control Regulatio	ns			
Not regulated.				
WHMIS 2015 Exemptions	Controlled			
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
TSCA Section 12(b) Export I	lotification (40 CFR 707, Subpt. D)			
Not regulated.				
CERCLA Hazardous Substa	nce List (40 CFR 302.4)			
Metal amine chelate (CAS	S HMIRA 11562) Listed.			
US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)			
Not listed.				
Superfund Amendments and Re	authorization Act of 1986 (SARA)			
Hazard categories	Immediate Hazard - Yes			
-	Delayed Hazard - Yes			
	Fire Hazard - No			
	Pressure Hazard - No			
	Reactivity Hazard - Yes			

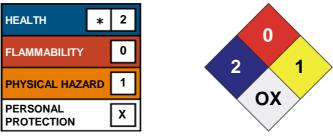
SARA 302 Extremely hazardous substance	No			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Nitrate salt #1		HMIRA 11562	HMIRA 11562	
Other federal regulations				
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollu	utants (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental Relea	se Prevention (40 CFR	68.130)	
Not regulated.				
JS state regulations	See below			
	ous Substances (Director	's): Listed substance		
US - Illinois Chemical S	(CAS HMIRA 11562) Safety Act: Listed substa	Listed. nce		
	(CAS HMIRA 11562) porting: Listed substanc	e		
	(CAS HMIRA 11562) /aterials Register: Param	Listed. neter number		
	(CAS HMIRA 11562) Substances: Listed subs	COPPER stance		
Inorganic acid (CAS Metal amine chelate Nitrate salt #1 (CAS Nitrate salt #2 (CAS	(CAS HMIRA 11562) HMIRA 11562)			
-	ening Levels: Listed sub	ostance		
Inorganic acid (CAS Nitrate salt #1 (CAS Nitrate salt #2 (CAS	HMIRA 11562)	Listed. Listed. Listed.		
US. Massachusetts RT				
Nitrate salt #1 (CAS Nitrate salt #2 (CAS				
•	r and Community Right-te	o-Know Act		
Metal amine chelate Nitrate salt #1 (CAS Nitrate salt #2 (CAS	,			
US. Pennsylvania Work	er and Community Right	-to-Know Law		
Metal amine chelate Nitrate salt #1 (CAS Nitrate salt #2 (CAS US. Rhode Island RTK				
Nitrate salt #1 (CAS Nitrate salt #2 (CAS	,			
US. California Proposition 6 Not Listed.				
nventory status				
Country(s) or region	Inventory name			On inventory

Country(s) or region	Inventory name On inventor	y (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
*A "Yes" indicates that all compor	nents of this product comply with the inventory requirements administered by the governing country(s))

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer



Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. 17-October-2017

02
17-October-2017
Dell Tech Laboratories, Ltd. Phone: (519) 858-5021
For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Issue date Version # Effective date Prepared by Other information